



Title: Gen Necessary for Striatal Function...  
Inventor(s): Robertson, et al.  
Application No.: 10/659,770  
Docket No.: 2817/102  
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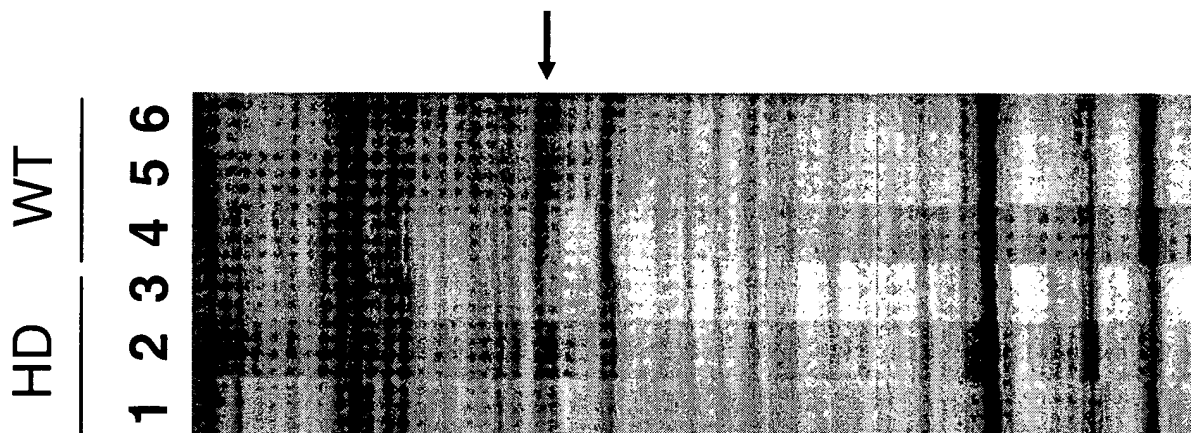


Figure 1

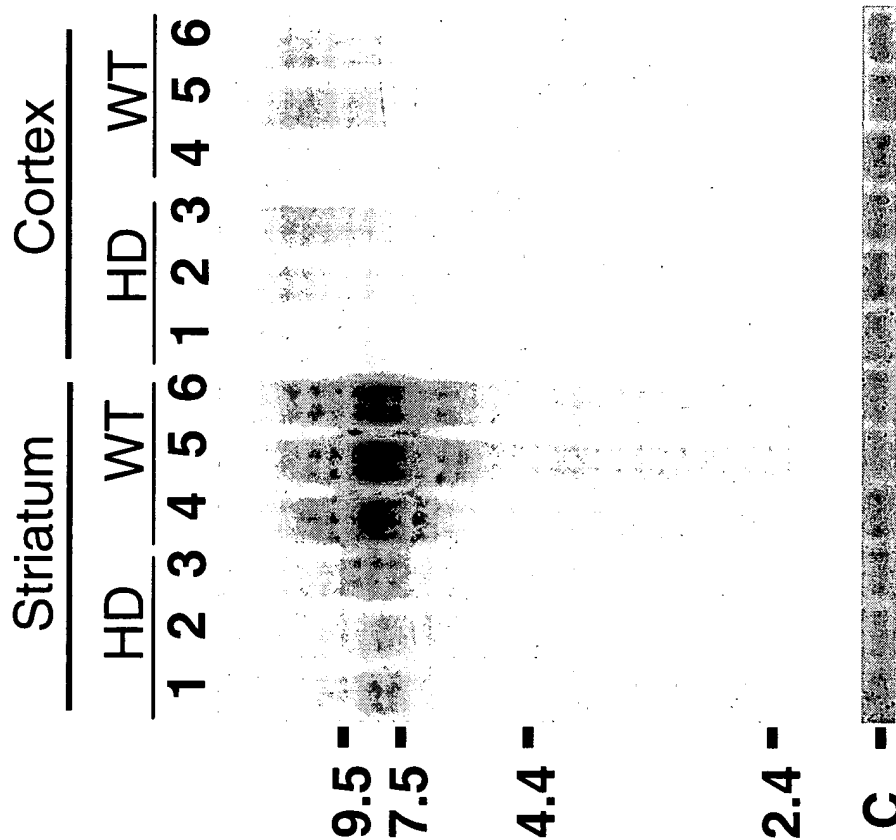


Figure 2



### Figure 3

1	TGTATGGGAA TAGTGTTC	ATATGATCTG TTGTCTGGAG	TATATGCTAC ATGTTCA	TTT	ACATACCCTT ATCACAAAGG	TATACTAGAC AACAGACCTC	ATATACGATG TACAAGTAAA
HD1							
61	ACTGTACAAA AACCCAGTGC	AGCTGATGAT GCAAAGCAGT	CTCTCTCTGT GTACAGTGCC	TGACATGTTT TTGGGTCACG	TCGACTACTA CGTTTCGTCA	GAGAGAGACA CATGTCACGG	
121	CCACCTATTT AAAAATCACG	TACAASCCCA GAACACTGTG	AAACACTTAA CATAAGAAAC	GGTGGATAAA TTTT	TAGTGC ATGTTSGGGT	CTTGTGACAC TTTGTGAATT	GTATTCTTTG
HD2							
181	AAACGCAGCG TCTGGATTCT	TTCCAAGGAG AGCAGCTTTC	TCCACAGGAA CACAGTAACA	TTTGCGTCGC AGACCTAAGA	AAGGTTTCCTC TCGTCGAAAG	AGGTGTCCTT GTGTCATTGT	
HD2							
241	AAAGAGGTCC GCCGCCATCC	ACACCCAGCC AAGACACCTC	AGAGGCCATA GGGACAACCT	TTTCTCCAGG CGGCGGTAGG	TGTGGGTCGG TTCTGTGGAG	TCTCCGGTAT CCCTGTTGGA	
301	CCTTGCTGGC CAACACCTGC	TGGAGCAGGG CACAGGTCCC	AGCAACTGAT CCTCAGTGGA	GGAACGACCG GTTGTGGACG	ACCTCGTCCC GTGTCCAGGG	TCGTTGACTA GGAGTCACCT	
361	TGGGTCCGCA GTCAAAGCCT	TAATGGGCTC TCTTTTGAAG	GGGAAAGAAA KWTTC	AAGC ACCCAGGCGT	CAGTTTCGGA ATTACCCGAG	AGAAACTTC CCCTTTCTTT	MWAAAGTTCG
421	TTATGATATC CAACATTATT	ATAGTTGATG AGTTAGTAAA	TTCCGAAAAA AAAA	AATACTATAG GTTGTAAATAA	TATCAACTAC TCAATCATT	T AAGGCTTTTT	TTTT



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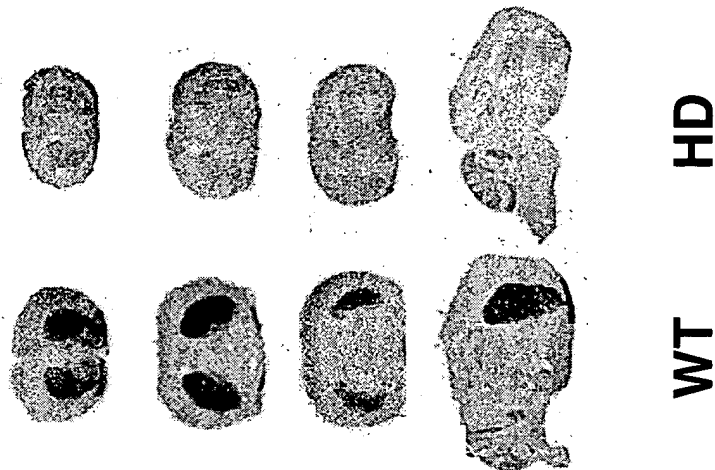


Figure 4

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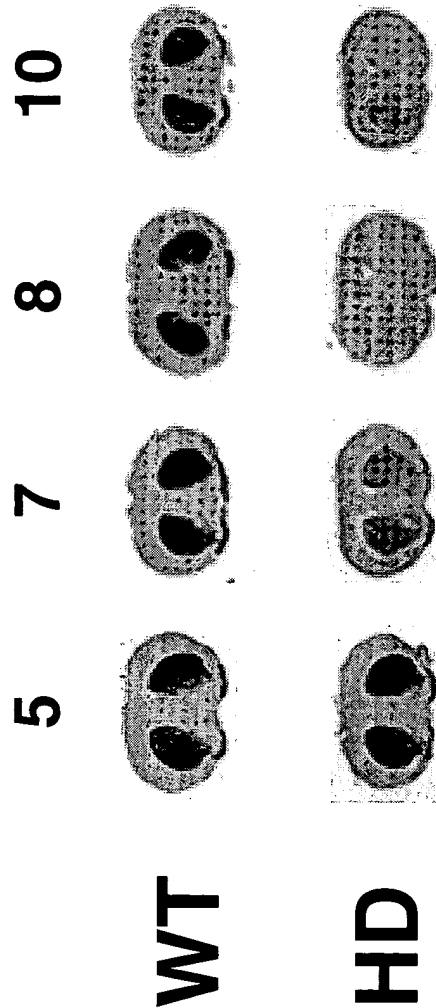


Figure 5

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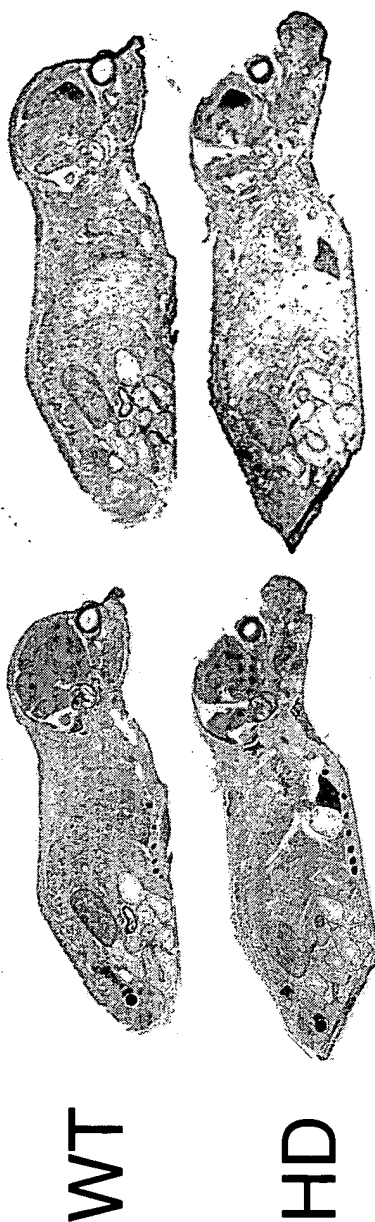


Figure 6

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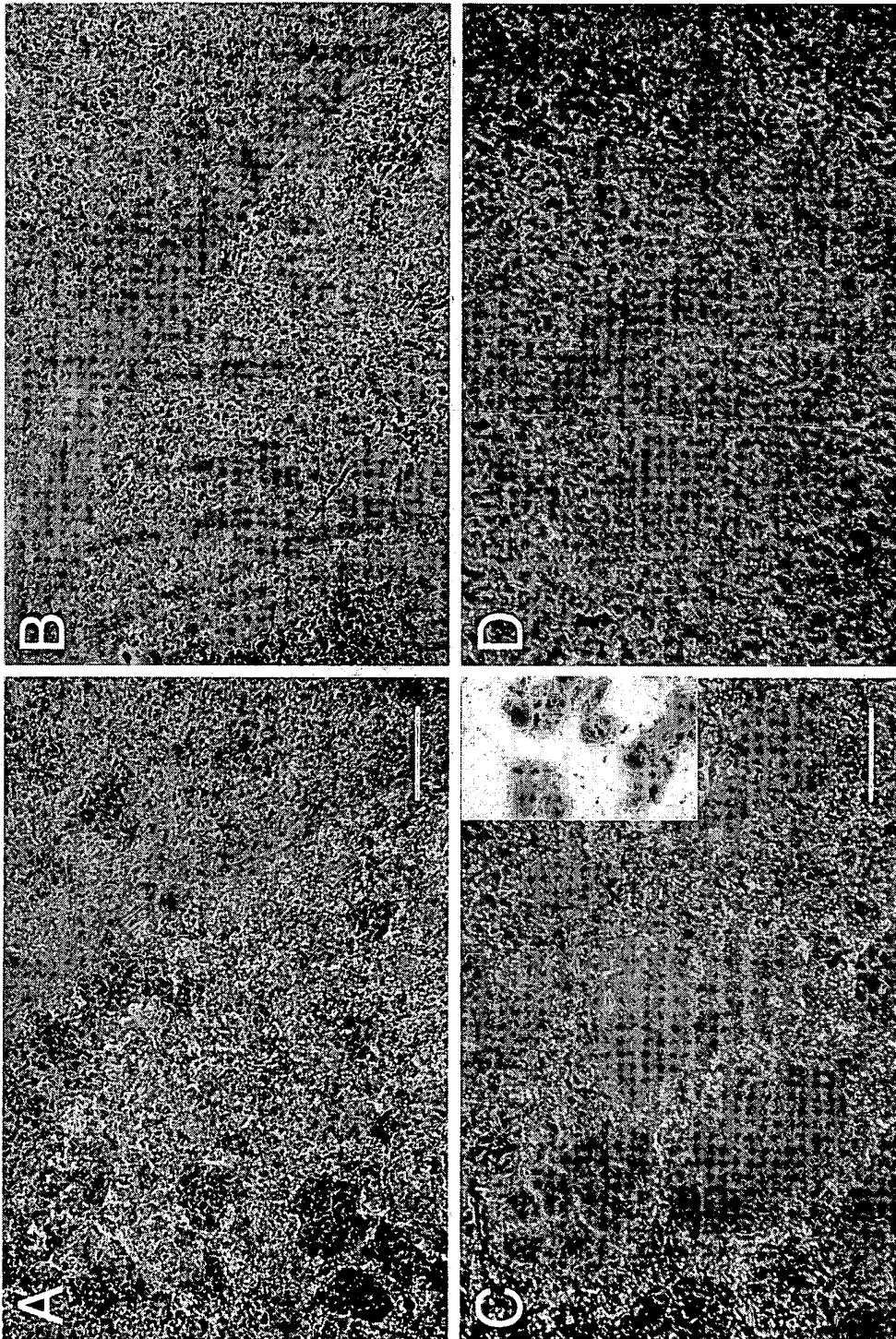


Figure 7



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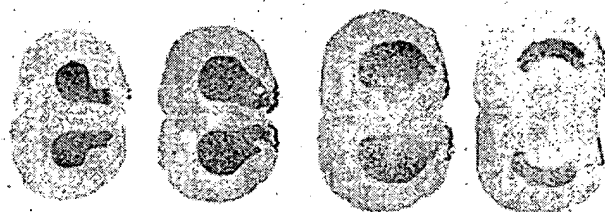


Figure 8





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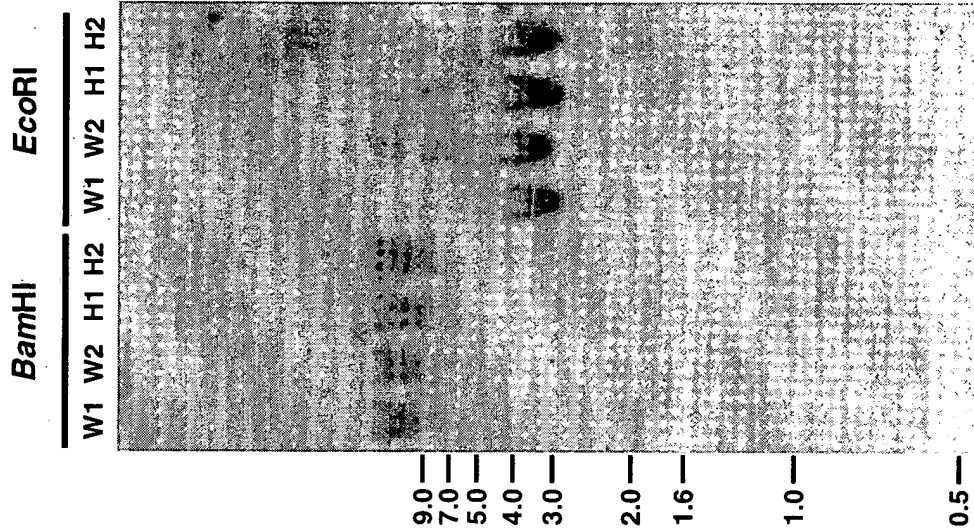


Figure 9

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## Figure 10

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1	CACTGAAGCT	GGTCCACGTC	TATAAACAGG	TGACACTGGC	TGCAGCAAAA	AGCCATTCTGA
	GTGACTTCGA	CCAGGTGCAG	ATATTTGTCC	ACTGTGACCG	ACGTCGTTTT	TCGGTAAGCT
61	TCCACACAAA	TTGATCTTCT	ATCATCTTGG	AATCTGAATT	GCAGGGAGGA	GCAGTATGTA
	AGGTGTGTTT	AACTAGAAGA	TAGTAGAACC	TTAGACTTAA	CGTCCCTCCT	CGTCATACAT
121	AGACGACCGT	TTAATTCAGG	CATTCCGAAG	GCATGAGCGC	ATGGATTCTG	TCACCAAGCG
	TCTGCTGGCA	AATTAAGTCC	GTAAGGCTTC	CGTACTCGCG	TACCTAAGAC	AGTGGTTTCG
181	TATAAAAGGA	CCCTGGCATT	GGGAAACCTA	TGACGGACTG	TTTTTGCTGT	AGAAGTAGGG
	ATATTTTCCT	GGGACCGTAA	CCCTTTGGAT	ACTGCCTGAC	AAAAACGACA	TCTTCATCCC
241	ATTTTACAGA	AGTCTCCTTG	AATTTGCCCT	GCCTGGGGCA	GTTTTGCAGA	GGAACCTGCC
	TAAATGTCT	TCAGAGGAAC	TTAAACGGGA	CGGACCCCGT	CAAAACGTCT	CCTTGGACGG
301	AGAGATTTAT	TGGCTGGTCA	GTCTCTTGTG	AAATAGTATC	ATGTGAGAAA	CAGTTTGTAG
	TCTCTAAATA	ACCGACCAGT	CAGAGAACAC	TTTATCATAG	TACACTCTTT	GTCAAACATC
361	AAAAAACTA	TACCTGGGAA	GACCTTTGCA	ACATTGTTCC	TTCCATGGGC	CAAGACTCAG
	TTTTTTTGAT	ATGGACCCTT	CTGGAAACGT	TGTAACAAGG	AAGGTACCCG	GTTCTGAGTC
421	TTAGGAGGCA	TAAATCTGCC	CGGAATAAAC	TAGGCCAGGA	TACAGCCATG	TTTAGTTAAT
	AATCCTCCGT	ATTTAGACGG	GCCTTATTTG	ATCCGGTCCT	ATGTCGGTAC	AAATCAATTA
481	AATTTGGTTT	TAGAATTCAC	ACAGGCAGGA	TTGGTTTTTT	TGTGTCTTGG	CAAGTGGAGC
	TTAAACCAAA	ATCTTAAGTG	TGTCCGTCCT	AACCAAAAAA	ACACAGAACC	GTTACCTCG
541	ATATTTAACA	TACAGGCATG	GGAATCCTGC	CTCTTAGCTT	TTCCCACCCT	CTTGTCTCAC
	TATAAATTGT	ATGTCCGTAC	CCTTAGGACG	GAGAATCGAA	AAGGGTGGGA	GAACAGAGTG
601	CAAGTTTTTT	CTCTCCAAAG	GTTTCCAGGA	ATTTCTCATT	AATGGCTGAT	GCAAACCTAG
	GTTCAAAAAA	GAGAGGTTTC	CAAAGGTCCT	TAAAGAGTAA	TTACCGACTA	CGTTTGAATC
661	TGAATAATAA	TGAATATAAA	CAATGCTCAC	CTCACCAAAA	TTATATTATT	TGCAGTCATT
	ACTTATTATT	ACTTATATTT	GTTACGAGTG	GAGTGGTTTT	AATATAATAA	ACGTCAGTAA
721	TGTGATAACA	CAAATTTTAT	CGCAATGGTT	ATTATTTAAT	TTGTGGCCAC	ACACTGTGGT
	ACACTATTGT	GTTTAAATA	GCGTTACCAA	TAATAAATTA	AACACCGGTG	TGTGACACCA
781	TATCTTTTGT	TGTGGTTGTT	TCTGAGAAAA	TGTTCTTGGA	TATGTAAGTG	CCAATACCAG
	ATAGAAAACA	ACACCAACAA	AGACTCTTTT	ACAAGAACCT	ATACATTAC	GGTTATGGTC
841	TGTGAAGTAT	TGATCCCGGG	CAGCAAAATA	CAGCCTAAGG	TTTGTAATAA	TCAATTCTAT
	ACACTTCATA	ACTAGGGCCC	GTCGTTTTAT	GTCGGATTCC	AAACATTTGT	AGTTAAGATA
901	CTCAGTTCAT	CAGAGGGCCT	GAGAAGCTGC	GGGGCAGTGT	AAAGTAAAGT	ATGCTGGGCT
	GAGTCAAGTA	GTCTCCCGGA	CTCTTCGACG	CCCCGTCACA	TTTCATTTCA	TACGACCCGA
961	GGTGGTGGTC	AGCCTCCCGC	CTGAAGAGTG	ACCAGTGCTG	GCCCGACGGA	TCGCTGAGAT
	CCACCACCAG	TCGGAGGGCG	GACTTCTCAC	TGGTCACGAC	CGGGCTGCCT	AGCGACTCTA
1021	ATTCTCCCAT	AATGGCAAAA	AAATAGGCAG	TTTGATGTGA	CCTGTTTAGT	GTGGCTCTCC
	TAAGAGGGTA	TTACCGTTTT	TTTATCCGTC	AAACTACACT	GGACAAATCA	CACCGAGAGG
1081	TCTTTTGAGC	ATGTGTTAGC	ATTTTTATTT	TATACTCATC	CAGTGAATC	TGCTCTTCCA
	AGAAAACTCG	TACACAATCG	TAAAAATAAA	ATATGAGTAG	GTCATTGAG	ACGAGAAGGT
1141	AGTGTGTTCA	TGTATGTGCT	AGATATATTA	GCACAGCCTG	CCTTCTGCTG	CACAACGCCT
	TCACACAAGT	ACATACACGA	TCTATATAAT	CGTGTCGGAC	GGAAGACGAC	GTGTTGCGGA
1201	TAGAGACCCG	GCCTTTCAAT	GAGCTTAGCT	TGTGCTCTGT	TTCTGCTCTC	TTAGGTCTAA
	ATCTCTGGGC	CGGAAAGTTA	CTCGAATCGA	ACACGAGACA	AAGACGAGAG	AATCCAGATT



Figure 10 (cont.)

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1261	ACTATGGTGT	CAGTTTTAAT	AGAACAAAAG	TATGCATCTT	GCCTTGGCTT	GAGCCTTTTC
	TGATACCACA	GTCAAATTA	TCTTGTTCCT	ATACGTAGAA	CGGAACCGAA	CTCGGAAAAG
1321	GTTTTCAATG	CTGACTTCTC	CCCTTTCTCT	CCTGTGCTCA	CCTTACCTTT	CCAGAGTGTA
	CAAAAGTTAC	GACTGAAGAG	GGGAAAGAGA	GGACACGAGT	GGAATGGAAA	GGTCTCACAT
1381	AGGGACAAC	TTTAAGGAGG	CGTGTCCCTG	GTAGGGGCAT	CCCTGTTCAC	CAGGTGCCTG
	TCCCTGTTGA	AAATTCCTCC	GCACAGGGAC	CATCCCCGTA	GGGACAAGTG	GTCCACGGAC
1441	TCATCACCCC	ACTTGACTGA	CATCTACCCT	GGTGACTATG	GGTTCCTCTT	GTTTGTAGGG
	AGTAGTGGGG	TGAAGTACTG	GTAGATGGGA	CCACTGATAC	CCAAGGAGAA	CAAACATCCC
1501	AACGGTGGCT	CCAGGTGGAG	GCATCAATCT	GTTGGGTTCT	GGTTCCTGGC	TGCCTTTGGT
	TTGCCACCGA	GGTCCACCTC	CGTAGTTAGA	CAACCAAGA	CCAAGGGCCG	ACGGAAACCA
1561	TTTGAAAGTC	TCTTCTCTGT	ATATTCCTAC	CCTGCATTTG	CTTTGTGTGG	TGCTGATGCT
	AAACTTTTCAG	AGAAGAGACA	TATAAGGATG	GGACGTAAAC	GAAACACACC	ACGACTACGA
1621	GTGCGCAGTA	GGATTCTTGG	ATGACTCTCC	ATCAGTCACA	GACTCCCCCT	GTTGCAAAGT
	CACGCGTCAT	CCTAAGAACC	TACTGAGAGG	TAGTCAGTGT	CTGAGGGGGA	CAACGTTTCA
1681	GTCAGGCTGA	CTCGACAGTC	ACCGTAAAT	CTGAGTCAGT	CACACACAGG	CTGTCAGCCA
	CAGTCCGACT	GAGCTGTCAG	TGGCATTTTA	GACTCAGTCA	GTGTGTGTCC	GACAGTCGGT
1741	CGGCTTCCAC	TTGCATGGCT	ATTCTATTTT	CACACGTGAG	TTTCTGTTGC	TGGCTGGCTG
	GCCGAAGGTG	AACGTACCGA	TAAGATAAAA	GTGTGCACTC	AAAGACAACG	ACCGACCGAC
1801	ACTGGCATT	TCTATGCTAA	GTTGAAATCA	GGAGTGCCCA	GCAGAGCCCA	TCATTCTCAC
	TGACCGTAAT	AGATACGATT	CAACTTTAGT	CCTCACGGGT	CGTCTCGGGT	AGTAAGAGTG
1861	TGTCTTTGAA	ACAAAGCTGT	ACGGTTTGAT	CGATGAACGT	ATTTAAAGCA	TTTCATGCAA
	ACAGAAACTT	TGTTTCGACA	TGCCAAACTA	GCTACTTGCA	TAAATTTTCGT	AAAGTACGTT
1921	TGACAAAGTG	CTCAGTAGTG	GAAGGCAGGC	TGTGACCAGT	CTGCCTGCTC	CTTACTATAA
	ACTGTTTCAC	GAGTCATCAC	CTTCCGTCCG	ACACTGGTCA	GACGGACGAG	GAATGATATT
1981	TTGTGAGGAT	TTGTTACTGG	AACAGTACAT	GGAGGCCTGA	CCTTGTGGGG	GCACAGGGTG
	AACACTCCTA	AACAATGACC	TTGTGATGTA	CCTCCGGACT	GGAACACCCC	CGTGTCCCAC
2041	GAACCTTAGC	TGAATATAGT	GTGTGTCTCA	AGAGGAAGTC	AGGGTACTAG	CTCAGTGCTC
	CTTGGAATCG	ACTTATATCA	CACACAGAGT	TCTCCTTCAG	TCCCATGATC	GAGTCACGAG
2101	AATCTCCAGG	TACTATATAT	ACATTTGCCC	GTTTTATCTC	TAATGTGAAA	TAAATCCCCA
	TTAGAGGTCC	ATGATATATA	TGTAAACGGG	CAAAATAGAG	ATTACACTTT	ATTTAGGGGT
2161	AACACTTGTT	TATCGTGTAG	CGTACCTAAA	AGACTATTCT	ATTATGGGTG	TCCCCACTTT
	TTGTGAACAA	ATAGCACATC	GCATGGATTT	TCTGATAAGA	TAATACCCAC	AGGGGTGAAA
2221	CTTGGTTTGG	TCACCCCGAT	CCCCCGGTCT	TCTGCTGTAT	CTAGAACAGT	GACTATAAAT
	GAACCAAACC	AGTGGGGCTA	GGGGGCCAGA	AGACGACATA	GATCTTGTCA	CTGATATTTA
2281	GATGTATGGG	AATAGTGTTT	CCATATGATC	TGTTGTCTGG	AGTATATGCT	ACATGTTCAA
	CTACATACCC	TTATCACAAA	GGTATACTAG	ACAACAGACC	TCATATACGA	TGTACAAGTT
2341	TTACTGTACA	AAAACCCAGT	GCAGCTGATG	ATGCAAAGCA	GTCTCTCTCT	GTGTACAGTG
	AATGACATGT	TTTTGGGTCA	CGTCGACTAC	TACGTTTCGT	CAGAGAGAGA	CACATGTCAC
2401	CCCCACCTAT	TTAAAAATCA	CGTACAASCC	CAGAACACTG	TGAAACACTT	AACATAAGAA
	GGGGTGATA	AATTTTGTAGT	GCATGTTSGG	GTCTTGTGAC	ACTTTGTGAA	TTGTATTCTT
2461	CAAACGCAGC	GTCTGGATTTC	TTTCCAAGGA	GAGCAGCTTT	CTCCACAGGA	ACACAGTAAC
	GTTTGCGTCG	CAGACCTAAG	AAAGGTTCCCT	CTCGTCGAAA	GAGGTGTCCT	TGTGTCATTG



## Figure 10 (cont.)

2521	AAAAGAGGTC	CGCCGCCATC	CACACCCAGC	CAAGACACCT	CAGAGGCCAT	AGGGACAACC
	TTTTCTCCAG	GCGGCGGTAG	GTGTGGGTCG	GTTCTGTGGA	GTCTCCGGTA	TCCCTGTTGG
2581	TCCTTGCTGG	CCAACACCTG	CTGGAGCAGG	GGCACAGGTC	CCAGCAACTG	ATCCTCAGTG
	AGGAACGACC	GGTTGTGGAC	GACCTCGTCC	CCGTGTCCAG	GGTCGTTGAC	TAGGAGTCAC
2641	GATGGGTCCG	CAGTCAAAGC	CTTAATGGGC	TCTCTTTTGA	AGGGGAAAGA	AAGAATTTCA
	CTACCCAGGC	GTCAGTTTCG	GAATTACCCG	AGAGAAACT	TCCCCTTTCT	TTCTTAAAGT
2701	AGCTTATGAT	ATCCAACATT	ATTATAGTTG	ATGAGTTAGT	AAATTCCAAA	AAAAAAGAT
	TCGAATACTA	TAGGTTGTAA	TAATATCAAC	TACTCAATCA	TTTAAGGTTT	TTTTTTTCTA
2761	GATTTTATAT	GTATGACATA	AAAAAATCT	TTGTAAAGTG	CGCAAGTGCA	ATAATTTAAA
	CTAAAATATA	CATACTGTAT	TTTTTTTAGA	AACATTTTAC	GCGTTCACGT	TATTAAATTT
2821	GAGGTCTTAT	CITTTGCATTT	ATAAATTATA	AATATTGTAC	ATGTGTGTAA	TTTTTCATGT
	CTCCAGAATA	GAAACGTAAA	TATTTAATAT	TTATAACATG	TACACACATT	AAAAAGTACA
2881	ATTCATTTGC	AGTCTTTGTA	TTTAAAAAAA	CTTTACTGTT	ATGTTTGTAT	AATAGAACAT
	TAAGTAAACG	TCAGAAACAT	AAATTTTTTT	GAAATGACAA	TACAAACATA	TTATCTTGTA
2941	TAATCATTTA	TTATAACTCA	GACAAGGTGT	AAATAAATTC	ATAATTCAAA	CAGCCAGTAT
	ATTAGTAAAT	AATATTGAGT	CTGTTCCACA	TTTATTTAAG	TATTAAGTTT	GTCGGTCATA
3001	ATATGCATAT	ATGGGTGTTA	CATTGCAAAA	ATCTCTATCT	TTGTTCTATT	CACATGCTTA
	TATACGTATA	TACCCACAAT	GTAACGTTTT	TAGAGATAGA	AACAAGATAA	GTGTACGAAT
3061	AAGAAGTAAG	AAATCTTTTG	TGGATATGTA	ATTATACATA	TAAAGTATAT	ATATATGTAT
	TTCTTCATTC	TTTAGAAAAAC	ACCTATACAT	TAATATGTAT	ATTTTCATATA	TATATACATA
3121	GATACATGAA	ATATATTTAG	AAATGTTTCAT	AATTTTAATG	GATATTCTTT	GGTGTGAATA
	CTATGTACTT	TATATAAATC	TTTACAAGTA	TTAAAATTAC	CTATAAGAAA	CCACACTTAT
3181	ATTGAATACA	ACATTTTTTAA	AATGAAAAAA	AAAAAAAAAA	AAAAAAAAAA	AAAAAA
	TAACTTATGT	TGTAAAAATT	TTACTTTTTTT	TTTTTTTTTT	TTTTTTTTTT	TTTTTT



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Figure 11

3236 bp



## Figure 12

1	AAGTGTAAT	AAAATAAACA	TCTAATAAAA	AAAATTACAT	ACCATAGAGG	AACAAGATAA
	TTCACATTTA	TTTTATTTGT	AGATTATTTT	TTTAAATGTA	TGGTATCTCC	TTGTTCTATT
61	TTTCTGCCCA	ACTTCATACC	CTCCAGCGTA	TAGTGTTGAG	GTTTGGTCTG	TTGCTGTGTA
	AAAGACGGGT	TGAAGTATGG	GAGGTCGCAT	ATCACAACTC	CAAACCAGAC	AACGACACAT
121	TTGTAATGTA	ATGTTAAATT	CTCTACCTGA	AGGTCTAGGC	CTACAAGTGA	ATTCTCATGT
	AACATTACAT	TACAATTTAA	GAGATGGACT	TCCAGATCCG	GATGTTCACT	TAAGAGTACA
181	TTATAGAGTT	TTGTTGTGCA	AACCTTGTTT	CTTAATTTAA	AACTATGGTT	AAAAAACAAA
	AATATCTCAA	AACAACACGT	TTGGAACAAG	GAATTAAATT	TTGATACCAA	TTTTTTGTTT
241	ACAAAACCTGG	CTACAGCCAA	TAAGTGAAGG	GGGTACCTT	GTTGAAGGGG	TGGAAGAGAG
	TGTTTTGACC	GATGTCGGTT	ATTGACTTCC	CCCAATGGAA	CAACTTCCCC	ACCTTTTCTC
301	AGAGGAGGAA	GAAGGGAGTT	CAAGAGAAGG	AGAAGAACAA	GAGGAGAGGA	GGAAGCTGCC
	TCTCCTCCTT	CTTCCCTCAA	GTTCTCTTCC	TCTTCTTGTT	CTCCTCTCCT	CCTTCGACGG
361	ACGAGGGGAG	ATGGGCCATG	AGAACTTGGC	CAGGAGAAAT	AGCCAGTATC	TGGAGTACAC
	TGCTCCCTTC	TACCCGGTAC	TCTTGAACCG	GTCTCTTTTA	TCGGTCATAG	ACCTCATGTG
421	CACTGAGGAG	GTAGCCAGGC	TAGCAGTTAG	AAGAGTAGAT	TAGGGGTTAT	TTTTCCCCCA
	GTGACTCCTC	CATCGGTCCG	ATCGTCAATC	TTCTCATCTA	ATCCCCAATA	AAAAGGGGGT
481	CTCCACATAG	TTATCAAAGC	CAAATAAAAT	AACCATAGTC	TGAGTCTCAT	CTATTTGTAA
	GAGGTGTATC	AATAGTTTCG	GTTTATTTTA	TTGGTATCAG	ACTCAGAGTA	GATAAACATT
541	GCTAGTTGGG	TATAAGATTA	ATTTGGCTGT	ACTACAGTTT	AGATTTCTAA	CATAGGAAC
	CGATCAACCC	ATATTCTAAT	TAAACCGACA	TGATGTCAAA	TCTAAAGATT	GTATCCTTGA
601	ATCAAAAAC	TGCTCAAACA	AGAACATGCT	GACAATATTT	TAAAATGATT	ATTTATATTG
	TAGTTTTTGA	ACGAGTTTGT	TCTTGTACGA	CTGTTATAAA	ATTTTACTAA	TAAATATAAC
661	TTTGCACTTT	CTAAAGTTTC	TTCTAAATGT	TCCATGGTCA	AATTAAAAAA	TATACATATT
	AAACGTGAAA	GATTTCAAAG	AAGATTTACA	AGGTACCAGT	TTAATTTTTT	ATATGTATAA
721	GGCTATTAAA	TTCGTCTAAG	TGGGGCTGGA	GAGATAGCTC	AGAGGTTAAG	AGCACTGACT
	CCGATAATTT	AAGCAGATTC	ACCCCGACCT	CTCTATCGAG	TCTCCAATTC	TCGTGACTGA
781	GCTCTTCCAG	AGGTCCTGAG	TTCAATTCCC	AGCGACCACA	TGGTGGCTCA	CAGCCATCTG
	CGAGAAGGTC	TCCAGGACTC	AAGTTAAGGG	TCGCTGGTGT	ACCACCGAGT	GTCGGTAGAC
841	TAATAGATAG	GATCTGACGC	CCTCTTCTGG	AGTGTCTGAA	GACAGCTACA	ATGTACTCAT
	ATTATCTATC	CTAGACTGCG	GGAGAAGACC	TCACAGACTT	CTGTCGATGT	TACATGAGTA
901	ATATATTAAA	TAAATAATAT	TAGAAAATTC	TTCTAAGTGT	ATCATTTATA	GAATATTTAA
	TATATAATTT	ATTTATTATA	ATCTTTTAA	AAGATTACACA	TAGTAAATAT	CTTATAAATT
961	TATATAAAGT	AAATGCCTCA	GGAAATATAA	ACTTGGAATT	AAATCAAAGA	ACTTCATGAG
	ATATATTTCA	TTTACGGAGT	CCTTTATATT	TGAACCTTAA	TTTAGTTTCT	TGAAGTACTC
1021	TAGTGGGCCA	CAAAAAATGT	GTACCAGGGG	AAGACCGGAG	GGAGGGGAGA	AGGAAGGGAT
	ATCACCCGGT	GTTTTTTTACA	CATGGTCCCC	TTCTGGCCTC	CCTCCCCTCT	TCCTTCCCTA
1081	GGAGATAGAA	TTTTGCCTCT	GCATTCCCTG	GGCTGGCACA	GGTATAATGC	TGTGGGAATT
	CCTCTATCTT	AAAACGGAGA	CGTAAGGAAC	CCGACCGTGT	CCATATTACG	ACACCCTTAA
1141	GGGAAACTAC	AAGGAAGCTG	CAAAGCTGGG	CGGAACCTCG	TTCCGCAAGC	TGGGCTCATC
	CCCTTTGATG	TTCTTTCGAC	GTTTCGACCC	GCCTTGAGCA	AAGGCGTTTC	ACCCGAGTAG
1201	TAAGTGTCCA	TGCATGGCTG	CCACACTGCA	GTGAACTTTA	AAACATTTGT	GTTCCAGAGA
	ATTCACAGGT	ACGTACCGAC	GGTGTGACGT	CACTTGAAAT	TTTGTAACA	CAAGGTCTCT



Figure 12 (cont.)

1261	TGTAGAGATG	CTCACAATAG	TACAAAGGCG	GGAGGGAGGT	ATTTCCAGAC	TAAGAGGAAG
	ACATCTCTAC	GAGTGTTATC	ATGTTTCCGC	CCTCCCTCCA	TAAAGGTCTG	ATTCTCCTTC
1321	AAAAACCATT	GCTGATTAAA	CATCTGCATA	TGAGCGCCCC	CACCTCCATA	CACACACACA
	TTTTTGGTAA	CGACTAATTT	GTAGACGTAT	ACTCGCGGGG	GTGGAGGTAT	GTGTGTGTGT
1381	CACACACACA	CACACACACA	CAACCAAACA	GAACAAATAC	ACATGCATGT	CTACAGCCTG
	GTGTGTGTGT	GTGTGTGTGT	GTTGGTTTGT	CTTGTTTATG	TGTACGTACA	GATGTCGGAC
1441	CAGGAACAAA	ATGGTATGTC	TGTGAGGAAC	CAGGAGATGC	ACAGGTCCTA	ACCTCTGTCT
	GTCCCTGTTT	TACCATAACAG	ACACTCCTTG	GTCCTCTACG	TGTCCAGGAT	TGGAGACAGA
1501	CCTACAAGCC	CTGAAGTCTG	GTCAGGGTCA	AATGTACAAA	AGCAGGCTAA	GGAAGCTGTT
	GGATGTTCCG	GACTTCAGAC	CAGTCCCACT	TTACATGTTT	TCGTCCGATT	CCTTCGACAA
1561	TAGTGAAAAG	TTTTTTTCTT	CAACTCTAGG	AACAACTAT	TTCCTAGGAT	TTGGAGAGTG
	ATCACTTTCT	AAAAAAAGAA	GTTGAGATCC	TTGTTGGATA	AAGGATCCTA	AACCTCTCAC
1621	CTCAGGAGGA	AACATTGAGA	CAACTGATGC	TCTCTGTGTA	CCCCAGATTC	AGGTATTGGG
	GAGTCCTCCT	TTGTAAGTCT	GTTGACTACG	AGAGACACAT	GGGGTCTAAG	TCCATAACCC
1681	GTAGTTAGTT	GTGCTCATGT	ATGTGCTAGA	TATATTAGCA	CAGCCTGCCT	TCTGCTGCAC
	CATCAATCAA	CACGAGTACA	TACACGATCT	ATATAATCGT	GTCGGACGGA	AGACGACGTG
1741	AACGCCTTAG	AGACCCGGCC	TTTCAATGAG	CTTAGCTTGT	GCTCTGTTTC	TGCTCTCTTA
	TTGCGGAATC	TCTGGGCCGG	AAAGTTACTC	GAATCGAACA	CGAGACAAAG	ACGAGAGAAT
1801	GGTCTAAACT	ATGGTGTCAG	TTTTAATAGA	ACAAAAGTAT	GCATCTTGCC	TTGGCTTGAG
	CCAGATTTGA	TACCACAGTC	AAAATTATCT	TGTTTTTATA	CGTAGAACGG	AACCGAACTC
1861	CCTTTTCGTT	TTCAATGCTG	ACTTCTCCCC	TTTCTCTCCT	GTGCTCACCT	TACCTTTCCA
	GGAAAAGCAA	AAGTTACGAC	TGAAGAGGGG	AAAGAGAGGA	CACGAGTGGA	ATGGAAAGGT
1921	GAGTGTAAGG	GACAACCTTT	AAGGAGGCGT	GTCCCTGGTA	GGGGCATCCC	TGTTACACAG
	CTCACATTCC	CTGTTGAAAA	TTCTCTCCGA	CAGGGACCAT	CCCCGTAGGG	ACAAGTGGTC
1981	GTGCCTGTCA	TCACCCCACT	TGACTGACAT	CTACCCTGGT	GACTATGGGT	TCCTCTTGTT
	CACGGACAGT	AGTGGGGTGA	ACTGACTGTA	GATGGGACCA	CTGATACCCA	AGGAGAACAA
2041	TGTAGGGAAC	GGTGGCTCCA	GGTGGAGGCA	TCAATCTGTT	GGGTTCTGGT	TCCCGGCTGC
	ACATCCCTTG	CCACCGAGGT	CCACCTCCGT	AGTTAGACAA	CCCAAGACCA	AGGGCCGACG
2101	CTTTGGTTTT	GAAAGTCTCT	TCTCTGTATA	TTCTTACCCT	GCATTTGCTT	TGTGTGGTGC
	GAAACCAAAA	CTTTCAGAGA	AGAGACATAT	AAGGATGGGA	CGTAAACGAA	ACACACCACG
2161	TGATGCTGTG	CGCAGCAGGA	TTCTTGATG	ACTCTCCATC	AGTCACAGAC	TCCCCCTGTT
	ACTACGACAC	GCGTCGTCCT	AAGAACCTAC	TGAGAGGTAG	TCAGTGTCTG	AGGGGGACAA
2221	GCAAAGTGTC	AGGCTGACTC	GACAGTCACC	GTAAAATCTG	AGTCAGTCAC	ACACAGGCTG
	CGTTTCACAG	TCCGACTGAG	CTGTCACTGG	CATTTTAGAC	TCAGTCAGTG	TGTGTCCGAC
2281	TCAGCCACGG	CTTCCACTTG	CATGGCTATT	CTATTTTCAC	ACGTGAGTTT	CTGTTGCTGG
	AGTCGGTGCC	GAAGGTGAAC	GTACCGATAA	GATAAAAGTG	TGCACTCAAA	GACAACGACC
2341	CTGGCTGACT	GGCATTATCT	ATGCTAAGTT	GAAATCAGGG	GTGCCCAGCA	GAGCCCATCA
	GACCGACTGA	CCGTAATAGA	TACGATTCAA	CTTTAGTCCC	CACGGGTCGT	CTCGGGTAGT
2401	TTCTCACTGT	CTTTGAAACA	AAGCTGTACG	GTTTGATCGA	TGAACGTATT	TAAAGCATTT
	AAGAGTGACA	GAAACTTTGT	TTCGACATGC	CAAACTAGCT	ACTTGCATAA	ATTTTCGTAA
2461	CATGCAATGA	CAAAGTGCTC	AGTAGTGGAA	GGCAGGCTGT	GACCAGTCTG	CCTGCTCCTT
	GTACGTTACT	GTTTCACGAG	TCATCACCTT	CCGTCCGACA	CTGGTCAGAC	GGACGAGGAA



Figure 12 (cont.)

2521	ACTATAATTG	TGAGGATTTG	TTACTGGAAC	AGTACATGGA	GGCCTGACCT	TGTGGGGGCA
	TGATATTAAC	ACTCCTAAAC	AATGACCTTG	TCATGTACCT	CCGGA CTGGA	ACACCCCCGT
2581	CAGGGTGGAA	CCTTAGCTGA	ATATAGTGTG	TGTCTCAAGA	GGAAGTCAGG	GTACTAGCTC
	GTCCACCTT	GGAATCGACT	TATATCACAC	ACAGAGTTCT	CCTTCAGTCC	CATGATCGAG
2641	AGTGCTCAAT	CTCCAGGTAC	TATATATACA	TTTGCCCGTT	TTATCTCTAA	TGTGAAATAA
	TCACGAGTTA	GAGGTCCATG	ATATATATGT	AAACGGGCAA	AATAGAGATT	ACACTTTATT
2701	ATCCCCAAAC	ACTTGT TTTAT	CGTGTAGCGT	ACCTAAAAGA	CTATTCTATT	ATGGGTGTCC
	TAGGGGTTTG	TGAACAAATA	GCACATCGCA	TGGATTTTCT	GATAAGATAA	TACCCACAGG
2761	CCACTTTCCT	GGTTTGGTCA	CCCCGATCCC	CCGGTCTTCT	GCTGTATCTA	GAACAGTGAC
	GGTGAAAGAA	CCAAACCAGT	GGGGCTAGGG	GGCCAGAAGA	CGACATAGAT	CTTGTCCTG
2821	TATAAATGAT	GTATGGGAAT	AGTGT TTTCCA	TATGATCTGT	TGTCTGGAGT	ATATGCTACA
	ATATTTACTA	CATACCCTTA	TCACAAAGGT	ATACTAGACA	ACAGACCTCA	TATACGATGT
2881	TGTTCA TTTA	CTGTACAAAA	ACCCAGTGCA	GCTGATGATG	CAAAGCAGTC	TCTCTCTGTG
	ACAAGTAAAT	GACATGTTTT	TGGGTCACGT	CGACTACTAC	GTTTCGTCAG	AGAGAGACAC
2941	TACAGTGCCC	CACCTATTTA	AAAATCACGT	ACTTGCC CAG	AACACTGTGA	AACACTTAAC
	ATGTCACGGG	GTGGATAAAT	TTTTAGTGCA	TGAACGGGTC	TTGTGACACT	TTGTGAATTG
3001	ATAAGAACAA	ACGCAGCGTC	TGGATTCTTT	CCAAGGAGAG	CAGCTTTCTC	CACAGGAACA
	TATTCTTGTT	TGCGTCGCAG	ACCTAAGAAA	GGTTCCTCTC	GTCGAAAGAG	GTGTCCTTGT
3061	CAGTAACAAA	AGAGGTCCGC	CGCCATCCAC	ACCCAGCCAA	GACACCTCAG	AGGCCATAGG
	GTCATTGTTT	TCTCCAGGCG	GCGGTAGGTG	TGGGTCGGTT	CTGTGGAGTC	TCCGGTATCC
3121	GACAACCTCC	TTGCTGGCCA	ACACCTGCTG	GAGCAGGGGC	ACAGGTCCCA	GCAACTGATC
	CTGTTGGAGG	AACGACCGGT	TGTGGACGAC	CTCGTCCCCG	TGTCCAGGGT	CGTTGACTAG
3181	CTCAGTGGAT	GGGTCTGCAG	CCAAAGCCTT	AATGGGCTCT	CTTTTGAAGG	GGAAAGAAAG
	GAGTCACCTA	CCCAGACGTC	GGTTTCGGAA	TTACCCGAGA	GAAAAC TTCC	CCTTTCTTTT
3241	AATTTCAAGC	TTATGATATC	CAATATTATT	ATAGTTGATG	AGTTAGTAAA	TTCCAAAAAA
	TTAAAGTTTCG	AATACTATAG	GTTATAATAA	TATCAACTAC	TCAATCATTT	AAGGTTTTTT
3301	AAAAGATGAT	TTTATATGTA	TGACATAAAA	AAAATCTTTG	TAAAGTGCGC	AAGTGCAATA
	TTTTCTACTA	AAATATACAT	ACTGATTTT	TTT TAGAAAC	ATTTCACGCG	TTACGTTAT
3361	ATTTAAAGAG	GTCTTATCTT	TGCATTTATA	AATTATAAAT	ATTGTACATG	TGTGTAATTT
	TAAATTTCTC	CAGAATAGAA	ACGTAAATAT	TTAATATTTA	TAACATGTAC	ACACATTAAA
3421	TTCATGTATT	CATTTGCAGT	CTTTGTATTT	AAAAAACTT	TACTGTTATG	TTGTATAAAT
	AAGTACATAA	GTAAACGTCA	GAAACATAAA	TTTTTTTGAA	ATGACAATAC	AAACATATTA
3481	AGAACATTAA	TCATTTATTA	TAAC TCAGAC	AAGGTGTAAA	TAAATTCATA	ATTCAAACAG
	TCTTGTAATT	AGTAAATAAT	ATTGAGTCTG	TTCCACATTT	ATTTAAGTAT	TAAGTTTGTC
3541	CCAGTATATA	TGCATATATG	GGTGTTACAT	TGCAAAAATC	TCTATCTTTG	TTCTATTTCAC
	GGTCATATAT	ACGTATATAC	CCACAATGTA	ACGTTTTTTAG	AGATAGAAAC	AAGATAAGTG
3601	ATGCTTAAAG	AAGTAAGAAA	TCTTTTGTGG	ATATGTAATT	ATACATATAA	AGTATATATA
	TACGAATTTT	TTCATTCTTT	AGAAAACACC	TATACATTAA	TATGTATATT	TCATATATAT
3661	TATGTATGAT	ACATGAAATA	TATTTAGAAA	TGTT CATAAT	TTTAATGGAT	ATTCTTTGGT
	ATACATACTA	TGTACTTTAT	ATAAATCTTT	ACAAGTATTA	AAATTACCTA	TAAGAAACCA
3721	GTGAATAATT	GAATACAACA	TTTTTAAAAT	AAAAAAAAAA	AAAAAAAAAA	AAAAAAAAAA
	CAC TTATTAA	CTTATGTTGT	AAAAATTTTA	TTTTTTTTTT	TTTTTTTTTT	TTTTTTTTTT





Figure 12 (cont.)

3781	AAAATTTTTT	TTTTTTTTTT	TTATTCCAGA	GATTAAAGAC	ACTAGATCTT	TAACCTTGAA
	TTTTAAAAAA	AAAAAAAAAA	AATAAGGTCT	CTAATTTCTG	TGATCTAGAA	ATTGGAACCT
3841	GGGCAGGCAA	GAGGTCGGCA	ATGCTGTCAA	CATAGAAGTC	AGGGACCATT	TTCTTCTTGA
	CCCGTCCGTT	CTCCAGCCGT	TACGACAGTT	GTATCTTCAG	TCCCTGGTAA	AAGAAGAACT
3901	ACATGCAGTC	ACTTTCCTGA	TTGCTCTTCA	CATCCTCAAG	GCTCCGGAAT	TCCGGGGGTG
	TGTACGTCAG	TGAAAGGACT	AACGAGAAGT	GTAGGAGTTC	CGAGGCCTTA	AGGCCCCCAC
3961	TGGTGGGCTT	TGATCTCAGG	ACTCTGGAGG	CAGAAGCAGG	CAGATCTCTG	TGAATATGAG
	ACCACCCGAA	ACTAGAGTCC	TGAGACCTCC	GTCTTCGTCC	GTCTAGAGAC	ACTTATACTC
4021	GCCAGCCTGC	ACTACACAGA	GCTCCAGACC	AGTCATGGCT	ACATCATGAA	ACCCTGTCTC
	CGGTCGGACG	TGATGTGTCT	CGAGGTCTGG	TCAGTACCGA	TGTAGTACTT	TGGGACAGAG
4081	AAAAAGAAAA	TAAAACTGT	TGTGTTTCTA	CCATAGTGTT	AAACTCAGAG	TCTGAGTAAT
	TTTTTCTTTT	ATTTTGTACA	ACACAAAGAT	GGTATCACAA	TTTGAGTCTC	AGACTCATTA
4141	GTCGGGCTGA	CATGCTCGGG	TGTTTAACAT	ACCTTCAGCT	TTGACGAGGC	GCTGAACAGT
	CAGCCCCGACT	GTACGAGCCC	ACAAATTGTA	TGGAAGTCGA	AACTGCTCCG	CGACTTGTCA
4201	CAAAGTCTGG	CCTTGGGGAG	CGGTGGCTGT	GTTTGTGCTC	AAGTCCACCG	TGAAATCCTG
	GTTTCAGACC	GGAACCCCTC	GCCACCGACA	CAAACACGAG	TTCAGGTGGC	ACTTTAGGAC
4261	ATTGTGAATT	TGGACAACCG	TGTCCTTCTT	CTTGGCCTTC	CATGCAACCT	CCAACTTCAT
	TAACACTTAA	ACCTGTTGGC	ACAGGAAGAA	GAACCGGAAG	GTACGTTGGA	GGTTGAAGTA
4321	GTTGGTCATT	TTGTCAAAAC	ACTGTGTGAT	GTTTTTATCA	ATATACTGCC	ATTCCACATA
	CAACCAGTAA	AACAGTTTTG	TGACACACTA	CAAAAATAGT	TATATGACGG	TAAGGTGTAT
4381	TGTAGAGATG	TAGTCTGCCT	GGCTTTCCTT	TTCTTTAGCC	AATCGAATGC	TCTTGATCAT
	ACATCTCTAC	ATCAGACGGA	CCGAAAGGAA	AAGAAATCGG	TTAGCTTACG	AGAACTAGTA
4441	GCCCTCAATC	TCATCTCTAG	CTTTTATCAC	GTCTCTGCTA	ATTCTTGAAA	CTTGAATCGA
	CGGGAGTTAG	AGTAGAGATC	GAAAATAGTG	CAGAGACGAT	TAAGGACTTT	GAACCTTAGCT
4501	AGTTTTCTTC	TGGTTCATCT	CAATGGTGAT	GTTCAGTTCC	TTCTGAATCT	CATTCACTTT
	TCAAAAGAAG	ACCAAGTAGA	GTTACCACTA	CAAGTCAAGG	AAGACTTAGA	GTAAGTCAAA
4561	CTCGTACTCC	TCCATGTCAA	AGTCACTGAC	ACACTCATCG	TCATTGGTGT	AGGAAAGCTG
	GAGCATGAGG	AGGTACAGTT	TCAGTGACTG	TGTGAGTAGC	AGTAACCACA	TCCTTTCGAC
4621	CTCTTTGGTA	ATCAGTTCCT	TTAGCCAGGA	GATTGTTTTG	TTCACTACTGT	CTACCCCTGA
	GAGAAACCAT	TAGTCAAGGA	AATCGGTCTT	CTAACAAAAC	AAGTGTGACA	GATGGGGACT
4681	ACCACATACC	TGGAAACTG	TGTGCTCTAT	TTTCTTTTCC	AAAACCAGGG	TGTTCTTTTT
	TGGTGTATGG	ACCTTTTGAC	ACACGAGATA	AAAGAAAAGG	TTTTGGTCCC	ACAAGAAAAA
4741	GGGGGAAGCT	TGCTTGGGAA	AGCCAAGAAA	GGCTAAAGAG	AAAATGGAAA	TTAATGTTTC
	CCCCCTTCGA	ACGAACCCTT	TCGGTCTTTT	CCGATTTCTC	TTTTACCTTT	AATTACAAAG
4801	TTTTACTCCC	TTCAACATCA	AGGTTAGGAA	TATGTATTTT	ATAAAAGCTA	ACAACCTACA
	AAAATGAGGG	AAGTTGTAGT	TCCAATCCTT	ATACATAAAG	TATTTTCGAT	TGTTGAGTGT
4861	GGCAATCTTA	GACATCACTG	ACTGCTTGGC	AGGCGACTGC	TTGGGGGGAG	CTGGAGAGCC
	CCGTTAGAAT	CTGTAGTGAC	TGACGAACCG	TCCGCTGACG	AACCCCTCCT	GACCTCTCGG
4921	TTCTCTTTCT	TTCATGTTGT	CGTAAAAAAA	TTGCAGAATA	TGGGGCTGGA	AGATAACAAC
	AAGAGAAAGA	AAGTACAACA	GCATTTTTTT	AACGTCTTAT	ACCCCGACCT	TCTATTGTTG
4981	TTTAACTCTC	TTCACAGCCT	GCACTGATTT	TTTCTGGACA	AATTCTTCAA	TGGCATCTAT
	AAATTGAGAG	AAGTGTCGGA	CGTGACTAAA	AAAGACCTGT	TTAAGAAGTT	ACCGTAGATA



## Figure 12 (cont.)

5041	TATCGCTTTT	GCTACTACGT	TTGGGTCCTG	TTGAGCATTT	CCTTCAAAAA	CAAAAAAAGC
	ATAGCGAAAA	CGATGATGCA	AACCCAGGAC	AACCTCGTAA	GGAAGTTTTT	GTTTTTTTTCG
5101	ACATTTTTTA	AAAGTCAAGG	TTAAGATCCA	CCTGCAAAAA	AAAGCTGCAA	TATAAGCGAG
	TGTAAAAATT	TTTCAGTTCC	AATTCTAGGT	GGACGTTTTT	TTTCGACGTT	ATATTGCTC
5161	GAATTCTAGT	TGTCACAGGA	AATAAAAATG	TCTGTTCCCA	CTATAATCAA	TGTAGACTGA
	CTTAAGATCA	ACAGTGTCTT	TTATTTTTTAC	AGACAAGGGT	GATATTAGTT	ACATCTGACT
5221	TAATATTATG	CCAGCAAATA	GTTTTGAAGT	CCTAGGCACA	GTGGGAGGAG	GTTTTGTTCC
	ATTATAATAC	GGTCGTTTAT	CAAAACTTCA	GGATCCGTGT	CACCCTCCTC	CAAAACAAGG
5281	ACGCTGTTCA	TAAGCCAATA	CCCCAGCAAA	AGACCTTAAA	GGACAACTTG	TAATTTGGGA
	TGCGACAAGT	ATTCGGTTAT	GGGGTCGTTT	TCTGGAATTT	CCTGTTGAAC	ATTAAACCTT
5341	CATTACATC	TGTCCTCTTC	ATCTGATCTG	GCTCCCAGTG	TCACTCTCTA	ACACGGTCCT
	GTAAGTGTAG	ACAGGAGAAG	TAGACTAGAC	CGAGGGTCAC	AGTGAGAGAT	TGTGCCAGGA
5401	TAGAGGGACA	ATTTATCCCT	GCCTCTGCTT	GATCTTATGC	ATGTATCTGT	ATTCTTCCAG
	ATCTCCCTGT	TAAATAGGGA	CGGAGACGAA	CTAGAATACG	TACATAGACA	TAAGAAGGTC
5461	CCATCCCCTG	CGACCTGATT	TTTCTAAGGC	ACCCAAAAC	GTAAGCTACT	TCTTATAATC
	GGTAGGGACC	GCTGGACTAA	AAAGATTCCG	TGGGTTTTGA	CATTGATGA	AGAATATTAG
5521	TATAATTCTG	AGCATATTAG	TTAGCCTGAG	CCTCCAGGAT	ATCTTTCTTC	CCTATACTCA
	ATATTAAGAC	TCGTATAATC	AATCGGACTC	GGAGGTCCTA	TAGAAAGAAG	GGATATGAGT
5581	GTCCAGTTTT	AGCTGCCCAG	AAGGATTCAA	AGCTGATCTA	CGAGTAGATC	ACTCCTGTCT
	CAGGTCAAAA	TCGACGGGTC	TTCCTAAGTT	TCGACTAGAT	GCTCATCTAG	TGAGGACAGA
5641	ACAGCTTGTT	CCAGATCTTG	TTTCTCAAGC	CCTGGAAGCC	ATCAGCCAGG	TAAGATTGTA
	TGTCGAACAA	GGTCTAGAAC	AAAGAGTTTC	GGACCTTCGG	TAGTCGGTCC	ATTCTAACAT
5701	AAACAATCCC	TTTCTAATCA	TGGGTGTGGC	CCAAAGTGAA	TGGCCGGAAT	TC
	TTTGTTAGGG	AAAGATTAGT	ACCCACACCG	GGTTTCACTT	ACCGGCCTTA	AG



Title : Gene Necessary for Striatal Function...  
Inventor(s): Robertson, et al.  
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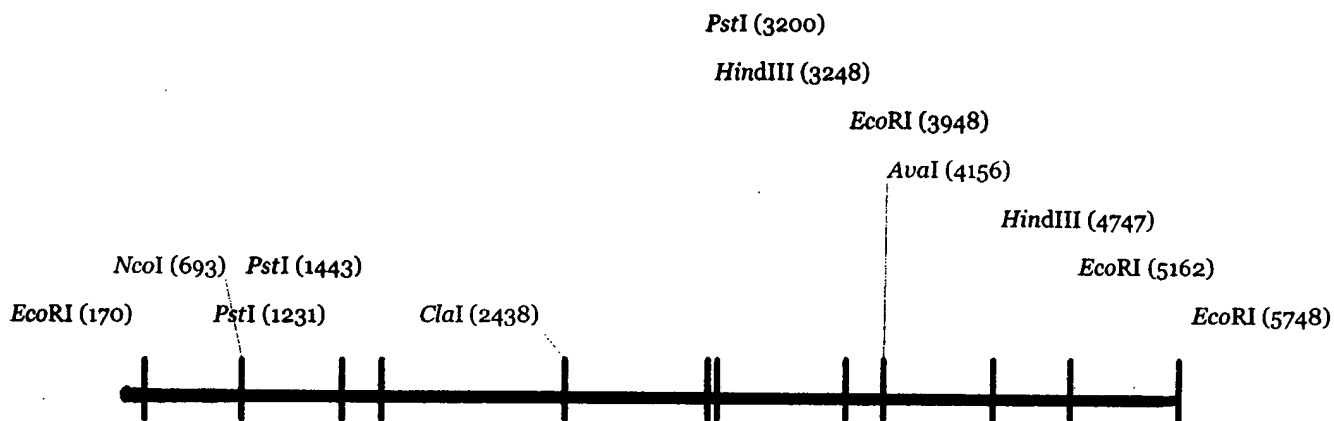


Figure 13

5752 bp



Title: Gene Necessary for Striatum Function...  
Inventor(s): Robertson, et al.  
Application No.: 10/659,770  
Docket No.: 2817/102  
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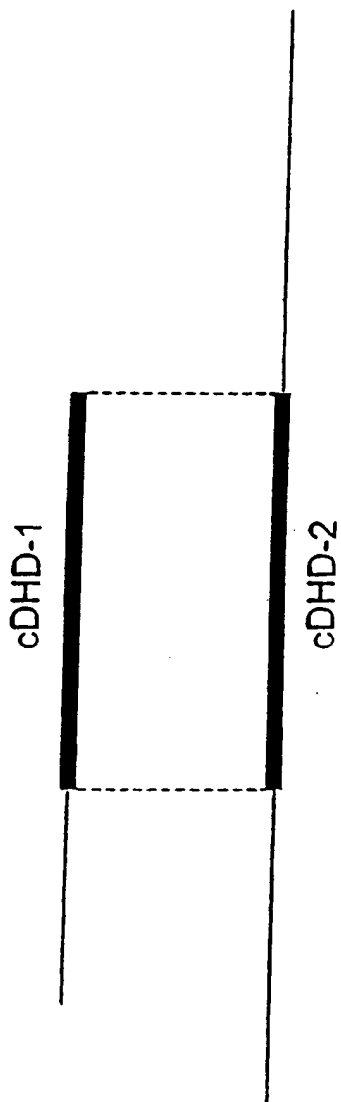


Figure 14



## Figure 15

1	CGCCCCGGGCA	GGTCTGTTGG	AGGGCAGTTG	GTCAACCTGA	CCAGAGAGAG	CTGAGCTGGA
	GCGGGCCCCGT	CCAGACAACC	TCCCGTCAAC	CAGTTGGACT	GGTCTCTCTC	GACTCGACCT
61	AGACCCCACT	GATGGTGTGC	TGCCTTTTCAG	TCCAGGAAGA	AAGAAAGGAA	GGATTCTGAG
	TCTGGGGTGA	CTACCACACG	ACGGAAAGTC	AGGTCCTTCT	TTCTTTCCTT	CCTAAGACTC
121	GATTTGGGCA	AAGCCACATT	CCTGGAGAAG	TCTGTATACT	GATGCCAAAC	CCAAGAGCTG
	CTAAACCCGT	TTCGGTGTA	GGACCTCTTC	AGACATATGA	CTACGGTTTG	GGTTCTCGAC
181	AGCTGCTGAT	GAGGCCCAGG	GAGTAGCCCA	CGCGCCCTGA	GCTGTTGGCT	AGCAAGGCCT
	TCGACGACTA	CTCCGGGTCC	CTCATCGGGT	GCGCGGGACT	CGACAACCGA	TCGTTCCGGA
241	TCCTGCTCCA	TGTGGCATGG	AAAAATTATA	TGGTTTGACG	GATGAAAAGG	TGAAGGCCTA
	AGGACGAGGT	ACACCGTACC	TTTTTAATAT	ACCAAACCTGC	CTACTTTTCC	ACTTCCGGAT
301	TCTTCTCTCT	CATCCCCAGG	TATTAGATGA	ATTTGTTTCT	GAAAGTGTTA	GTGCAGAGAC
	AGAAAGAGAG	GTAGGGGTCC	ATAATCTACT	TAAACAAAGA	CTTTCACAAT	CACGTCTCTG
361	TGTGAAAAAG	TGGCTGAAGA	GGAAAACCAA	CAAAGCAAAA	GATGAACCAT	CTCCAAGGA
	ACACCTTTTC	ACCGACTTCT	CCTTTTGTTT	GTTTCGTTTT	CTACTTGTA	GAGGGTTCCT
421	AGTCAGCAGG	TACCAGGATA	CGAATATGCA	GGGAGTCGTG	TACGAGCTGA	ACAGCTACAT
	TCAGTCGTCC	ATGGTCCAT	GCTTATACGT	CCCTCAGCAC	ATGCTCGACT	TGTCGATGTA
481	AGAGCAGCGC	CTGGACACGG	GCGGGGACAA	CCACCTGCTC	CTCTATGAGC	TCAGCAGCAT
	TCTCGTCGCG	GACCTGTGCC	CGCCCCGTGT	GGTGGACGAG	GAGATACTCG	AGTCGTCGTA
541	CATCAGGATA	GCCACAAAAG	CCGACGGATT	TGCACTGTAC	TTCCTTGAG	AGTGCAATAA
	GTAGTCCTAT	CGGTGTTTTT	GGCTGCCTAA	ACGTGACATG	AAGGAACCTC	TCACGTTATT
601	TAGCCTGTGT	GTGTTCATAC	CACCCGGGAT	GAAGGAAGGC	CAACCCCGGC	TCATCCCTGC
	ATCGGACACA	CACAAGTATG	GTGGGCCCTA	CTTCTTCCG	GTTGGGGCCG	AGTAGGGACG
661	AGGGCCCATC	ACCCAGGGTA	CCACCATCTC	TGCCTACGTG	GCCAAGTCTA	GGAAGACGTT
	TCCCGGGTAG	TGGGTCCCAT	GGTGGTAGAG	ACGGATGCAC	CGGTTCAGAT	CCTTCTGCAA
721	GTTGGTAGAG	GATATCCTTG	GGGATGAGCG	ATTTCTCTCGA	GGTACTGGCC	TGGAATCAGG
	CAACCATCTC	CTATAGGAAC	CCCTACTCGC	TAAAGGAGCT	CCATGACCGG	ACCTTAGTCC
781	AACCCGCATC	CAGTCTGTTT	TTTGCTTGCC	CATTGTCACT	GCCATTGGAG	ACTTGATTGG
	TTGGGCGTAG	GTCAGACAAG	AAACGAACGG	GTAACAGTGA	CGGTAACCTC	TGAACCTAAC
841	CATCCTTGAA	CTGTACAGGC	ACTGGGGCAA	AGAGGCCTTC	TGCCTCAGCC	ATCAGGAGGT
	GTAGGAACTT	GACATGTCCG	TGACCCCGTT	TCTCCGGAAG	ACGGAGTCGG	TAGTCCTCCA
901	TGCAACAGCC	AATCTTGCTT	GGGCTTCCGT	AGCAATACAC	CAGGTGCAGG	TGTGTAGAGG
	ACGTTGTCCG	TTAGAACGAA	CCCGAAGGCA	TCGTTATGTG	GTCCACGTCC	ACACATCTCC
961	TCTCGCCAAA	CAGACCGAAC	TGAATGACTT	CCTACTCGAC	GTATCAAAGA	CATACTTTGA
	AGAGCGGTTT	GTCTGGCTTG	ACTTACTGAA	GGATGAGCTG	CATAGTTTCT	GTATGAAACT
1021	TAACATAGTT	GCCATAGACT	CTCTACTTGA	ACACATCATG	ATATATGCAA	AAAATCTAGT
	ATTGTATCAA	CGGTATCTGA	GAGATGAACT	TGTGTAGTAC	TATATACGTT	TTTGTAGTCA
1081	GAACGCCGAC	CGCTGCGCGC	TCTTCCAGGT	GGACCACAAG	AACAAGGAGC	TGTACTCGGA
	CTTGCGGCTG	GCGACGCGCG	AGAAGGTCCA	CCTGGTGTTT	TTGTTCTCTG	ACATGAGCCT
1141	CCTGTTTGAC	ATTGGGGAGG	AGAAGGAGGG	GAAGCCCATC	TTCAAGAAGA	CCAAGGAGAT
	GGACAAACTG	TAACCCCTCC	TCTTCTCTCC	CTTCGGGTAG	AAGTTCTTCT	GGTTCCTCTA
1201	CAGATTTTCC	ATTGAGAAAG	GGATTGCTGG	TCAAGTGGCA	AGAACAGGCG	AAGTCTTGAA
	GTCTAAAAGG	TAACCTTTTC	CCTAACGACC	AGTTCACCGT	TCTTGTCGCG	TTCAGAAGTT



Figure 15 (cont.)

1261	CATTCCCGAT	GCCTACGCGG	ACCCTCGCTT	TAACAGGGAG	GTGGACCTGT	ACACAGGCTA
	GTAAGGGCTA	CGGATGCGCC	TGGGAGCGAA	ATTGTCCCTC	CACCTGGACA	TGTGTCCGAT
1321	CACCACGAGG	AACATTCTGT	GTATGCCCAT	AGTGAGCCGA	GGCAGCGTGA	TTGGCGTGGT
	GTGGTGCTCC	TTGTAAGACA	CATACGGGTA	TCACTCGGCT	CCGTGCGACT	AACCGCACCA
1381	GCAGATGGTG	AACAAGATCA	GCGGTAGCGC	CTTCTCCAAG	ACAGACGAGA	ACAACTTCAA
	CGTCTACCAC	TTGTTCTAGT	CGCCATCGCG	GAAGAGGTTT	TGTCTGCTCT	TGTTGAAGTT
1441	GATGTTTGCT	GTCTTCTGCG	CACTGGCCTT	GCACTGTGCT	AACATGTACC	ACAGGATCCG
	CTACAAACGA	CAGAAGACGC	GTGACCGGAA	CGTGACACGA	TTGTACATGG	TGTCCTAGGC
1501	CCACTCAGAA	TGCATCTACA	GGGTTACCAT	GGAGAAGCTT	TCCTACCACA	GCATCTGCAC
	GGTGAGTCTT	ACGTAGATGT	CCCAATGGTA	CCTCTTCGAA	AGGATGGTGT	CGTAGACGTG
1561	CTCCGAGGAG	TGGCAAGGCC	TCATGCGCTT	CAACCTACCA	GCACGCATCT	GCCGGGACAT
	GAGGCTCCTC	ACCGTTCCGG	AGTACGCGAA	GTTGGATGGT	CGTGCGTAGA	CGGCCCTGTA
1621	CGAGCTATTC	CACTTTGACA	TTGGTCCTTT	CGAGAACATG	TGGCCTGGGA	TCTTTGTCTA
	GCTCGATAAG	GTGAAACTGT	AACCAGGAAA	GCTCTTGATC	ACCGGACCCT	AGAAACAGAT
1681	CATGATCCAT	CGGTCTTG TG	GGACATCCTG	TTTTGAAC TT	GAAAAATTGT	GCCGTTTTAT
	GTACTAGGTA	GCCAGAACAC	CCTGTAGGAC	AAAAC TTGAA	CTTTTAAACA	CGGCAAAATA
1741	CATGTCTGTG	AAGAAGAACT	ATCGGCGGGT	TCCTTACCAC	AACTGGAAGC	ATGCAGTCAC
	GTACAGACAC	TTCTTCTTGA	TAGCCGCCCA	AGGAATGGTG	TTGACCTTCG	TACGTCAGTG
1801	GGTGGCACAC	TGCATGTATG	CCATACTTCA	AAACAACAAT	GGCCTCTTCA	CAGACCTCGA
	CCACCGTGTG	ACGTACATAC	GGTATGAAGT	TTTGTTGTTA	CCGGAGAAGT	GTCTGGAGCT
1861	GCGCAAAGGC	CTGCTAATTG	CGTGTCTGTG	CCATGACCTG	GACCACAGGG	GCTTCAGTAA
	CGCGTTTCCG	GACGATTAAC	GCACAGACAC	GGTACTGGAC	CTGGTGTCCC	CGAAGTCATT
1921	CAGCTACCTG	CAGAAGTTCG	ACCACCCCTT	GGCGGCGCTG	TACTCCACCT	CCACCATGGA
	GTCGATGGAC	GTCTTCAAGC	TGGTGGGGGA	CCGCCGCGAC	ATGAGGTGGA	GGTGGTACCT
1981	GCAACACCAC	TTCTCCCAGA	CGGTGTCCAT	CCTTCAGCTG	GAAGGGCACA	ATATCTTCTC
	CGTTGTGGTG	AAGAGGGTCT	GCCACAGGTA	GGAAGTCGAC	CTTCCCGTGT	TATAGAAGAG
2041	CACCCTGAGC	TCCAGCGAGT	ACGAGCAGGT	GCTGGAGATC	ATCCGCAAAG	CCATCATCGC
	GTGGGACTCG	AGGTCGCTCA	TGCTCGTCCA	CGACCTCTAG	TAGGCGTTTC	GGTAGTAGCG
2101	CACCGACCTC	GCCCTATACT	TTGGGAACAG	GAAGCAGTTG	GAGGAGATGT	ACCAGACAGG
	GTGGCTGGAG	CGGGATATGA	AACCCTTGTC	CTTCGTCAAC	CTCCTCTACA	TGGTCTGTCC
2161	GTCGCTGAAC	CTCCACAACC	AGTCCCATCG	AGACCGTGTC	ATCGGCTTGA	TGATGACTGC
	CAGCGACTTG	GAGGTGTTGG	TCAGGGTAGC	TCTGGCACAG	TAGCCGAACT	ACTACTGACG
2221	CTGTGATCTT	TGCTCTGTGA	CCAAACTATG	GCCAGTTACA	AAATTGACAG	CGAATGATAT
	GACACTAGAA	ACGAGACACT	GGTTTGATAC	CGGTCAATGT	TTTAACTGTC	GCTTACTATA
2281	ATATGCAGAA	TTCTGGGCTG	AGGGTGATGA	GATGAAGAAG	CTGGGCATAC	AGCCCATTC
	TATACGTCTT	AAGACCCGAC	TCCCACTACT	CTACTTCTTC	GACCCGTATG	TCGGGTAAAG
2341	TATGATGGAC	AGAGACAAGC	GAGATGAAGT	CCCTCAAGGG	CAGCTCGGAT	TCTACAATGC
	ATACTACCTG	TCTCTGTTCC	CTCTACTTCA	GGGAGTTCCC	GTCGAGCCTA	AGATGTTACG
2401	TGTGGCCATT	CCCTGCTATA	CCACCTTGAC	GCAGATCCTC	CCACCCACAG	AGCCTCTGCT
	ACACCGGTAA	GGGACGATAT	GGTGGAATG	CGTCTAGGAG	GGTGGGTGTC	TCGGAGACGA
2461	GAAGGCCTGC	AGGGATAACC	TCAATCAGTG	GGAGAAGGTA	ATTGCGGGGG	AAGAGACAGC
	CTTCCGGACG	TCCCTATTGG	AGTTAGTCAC	CCTCTTCCAT	TAAGCGCCCC	TTCTCTGTCC



Figure 15 (cont.)

2521	AATGTGGATT	TCAGGCCAG	GCCCGCGCC	TAGCAAGAGC	ACACCTGAGA	AGCTGAACGT
	TTACACCTAA	AGTCCGGGTC	CGGGCCGCGG	ATCGTTCTCG	TGTGGACTCT	TCGACTTGCA
2581	GAAGGTTGAA	GACTGATCCT	GAAGTGACGT	CCTGATGTCT	GCCCAGCAAC	CGACTCAACC
	CTTCCAACCT	CTGACTAGGA	CTTCACTGCA	GGACTACAGA	CGGGTCGTTG	GCTGAGTTGG
2641	TGCTTCTGTG	ACTTCGTTCT	TTTTGTTTTT	AAGGGGTGAA	AACCCCTGT	CAGAAGGTAC
	ACGAAGACAC	TGAAGCAAGA	AAAACAAAAG	TTCCCCACTT	TTGGGGGACA	GTCTTCCATG
2701	CGTCGCATAT	CCATGTGAAG	CAGACGACTC	CCTGCTTGCC	GCACACACCT	CGGACAGTGA
	GCAGCGTATA	GGTACACTTC	GTCTGCTGAG	GGACGAACGG	CGTGTGTGGA	GCCTGTCACT
2761	GCAACCCAGG	CTCTGCCGTG	TTCAGACGTC	GGCTACTCCG	TGGCTCCACC	TGACCTCCGA
	CGTTGGGTCC	GAGACGGCAC	AAGTCTGCAG	CCGATGAGGC	ACCGAGGTGG	ACTGGAGGCT
2821	ATGCTATTTG	CTCCCAGGCC	AGCACTGCAC	TGTCTGGAGG	GGGCAGAGAC	CACAGGAGAG
	TACGATAAAC	GAGGGTCCGG	TCGTGACGTG	ACAGACCTCC	CCCGTCTCTG	GTGTCTCTC
2881	GTTCTTGCCCT	GCATCCTCCC	ATGAGGGTGT	GGCCAGTTCC	CTAGTTCTGT	GCCATGCTGC
	CAAGAACGGA	CGTAGGAGGG	TACTCCCACA	CCGGTCAAGG	GATCAAGACA	CGGTACGACG
2941	TGCTTGGTGG	CATTGGTTAG	GAATGGGACA	CACGCCCCTT	GTTGTGAAGT	TTACATGTGA
	ACGAACCACC	GTAACCAATC	CTTACCCTGT	GTGCGGGGAA	CAACACTTCA	AATGTACACT
3001	CCTTCTTATA	GGTAACTGA	GTTTGTGGCC	TGGACACATG	TAATGAAGGT	CACAGTCCAC
	GGAAGAATAT	CCAATTGACT	CAAACACCGG	ACCTGTGTAC	ATTACTTCCA	GTGTCAAGTG
3061	AGGTGACAGA	GAAATCCAAA	CTGTTGATTA	CAGGTGCACT	ACAGGTATGC	TCTTTCAGTC
	TCCACTGTCT	CTTTAGGTTT	GACAATAAT	GTCCACGTGA	TGTCCATACG	AGAAAGTCAG
3121	TATCTGGGGG	CACATAGGTG	AGTCTGCTCC	ACTCAGAANN	AAGCATACCT	CTGCCCTCAT
	ATAGACCCCC	GTGTATCCAC	TCAGACGAGG	TGAGTCTTNN	TTCGTATGGA	GACGGGAGTA
3181	CCAGGGGACA	CAGGGTACAT	CCCAGGCATC	GGGGAAGTGA	AGCTCTCACT	TCAAACCATG
	GGTCCCCTGT	GTCCCATGTA	GGGTCCGTAG	CCCCTTGACT	TCGAGAGTGA	AGTTTGGTAC
3241	TCAAAGAATT	AAAACACCTC	CCCTCCCCCT	CACTGTAGCC	TTCGACAACT	GCGCCAATCC
	AGTTTCTTAA	TTTTGTGGAG	GGGAGGGGGA	GTGACATCGG	AAGCTGTTGA	CGCGGTTAGG
3301	CTTTATACAA	AGAAAATAAA	AGTAAGGCAT	ATAAATTTCC	TCCAGCAAGC	AAATCTTGTG
	GAAATATGTT	TCTTTTATTT	TCATTCCGTA	TATTTAAAGG	AGGTCGTTCC	TTTAGAACAC
3361	GGTAAAAAAA	AAGCATGTGA	ATNNTAACAA	CNTCTANANT	NTCNCNGNAT	GTTATGGCAG
	CCATTTTTTTT	TTCGTACACT	TANNATTGTT	GNAGATNTNA	NAGNGNCNTA	CAATACCGTC
3421	AATTTTAGTC	ACGTCCAAAA	CAAAAAGATT	ATTCCAGAAG	ATACCTCATC	CTATGCCTGA
	TTAAAATCAG	TGCAGGTTTT	GTTTTTCTAA	TAAGGTCTTC	TATGGAGTAG	GATACGGACT
3481	AAGGCTCCAC	AGCATGGCGT	CCGTCTCCCA	GGGTTCTGAT	CCGTCTCCTC	ACGGTGCAAT
	TTCCGAGGTG	TCGTACCGCA	GGCAGAGGGT	CCCAAGACTA	GGCAGAGGAG	TGCCACGTTA
3541	CAGGCAGGAC	AGAGAGGAGG	GCTGCAGGGC	TACCACATTG	ACCCAGAAGG	TATCTCCTCT
	GTCCGTCCTG	TCTCTCCTCC	CGACGTCCCG	ATGGTGTAAC	TGGGTCTTCC	ATAGAGGAGA
3601	CACCATTTCAG	ACATCCATAA	GGAATGCCAA	ATGCTGTATT	GAATAGTTCT	CTGTGTGACT
	GTGGTAAGTC	TGTAGGTATT	CCTTACGGTT	TACGACATAA	CTTATCAAGA	GACACACTGA
3661	TTCTAGAGAA	GCCAGGACAC	CCTGAGCCTT	TCCNGGGGAA	CTCTAAGGAG	TCACAGGTTC
	AAGATCTCTT	CGGTCCTGTG	GGACTCGGAA	AGNCCCCTT	GAGATTCTCT	AGTGTCCAAG
3721	ACACCGTGGG	GATTTTCAGG	ATAGCATGGA	GACAGAGATC	CGGTCGTTGT	TCTCACTCGT
	TGTGGCACCC	CTAAAAGTCC	TATCGTACCT	CTGTCTCTAG	GCCAGCAACA	AGAGTGAGCA



## Figure 15 (cont.)

3781	GAGCCTTGAG	AAGGAGAGAC	TGACCAGAAA	CACTCACTCA	GCACTCTGCA	GGAGCAGGAG
	CTCGGAACCTC	TTCCTCTCTG	ACTGGTCTTT	GTGAGTGAGT	CGTGAGACGT	CCTCGTCCCTC
3841	AAGATACTTT	AAGATGAATC	TTGGATAGAT	TTTGATACAC	CCAATACCAT	ACACACAGGA
	TTCTATGAAA	TTCTACTTAG	AACCTATCTA	AAACTATGTG	GGTTATGGTA	TGTGTGTCCT
3901	GCTTGGCATT	TGCAAAGTCT	ATTCAGTTTC	CTTCCGCGCT	CTGACCCACG	GTTGTAGCGG
	CGAACCGTAA	ACGTTTCAGA	TAAGTCAAAG	GAAGGCGCGA	GACTGGGTGC	CAACATCGCC
3961	AGTGGGCTGA	ACACTGTAAC	ACTGTACATG	CGATTTCCCC	ATGGGCTTCT	AAAATGTCAC
	TCACCCGACT	TGTGACATTG	TGACATGTAC	GCTAAAGGGG	TACCCGAAGA	TTTTACAGTG
4021	CATCTCCTCC	CCTGCTGTGT	CCTACTCCAT	TTACTGGTTA	CAAGGTGATG	TCAACAAGAG
	GTAGAGGAGG	GGACGACACA	GGATGAGGTA	AATGACCAAT	GTTCCACTAC	AGTTGTTCTC
4081	AAGCTATCAC	AACACCAGGG	CTGTGCACAC	GTGCACACAC	ATGTATGCAC	AAGCACACAG
	TTCGATAGTG	TTGTGGTCCC	GACACGTGTG	CACGTGTGTG	TACATACGTG	TTCGTGTGTC
4141	ATGTATGTAC	AGCACACACA	CACACACACA	CCCCAAAAGG	AGAGAAAAGG	AAGAAAACAT
	TACATACATG	TCGTGTGTGT	GTGTGTGTGT	GGGGTTTTCC	TCTCTTTTCC	TTCTTTTGTA
4201	TTATAAAAAG	CGACAGCTAC	CCCATATCAA	AATAGTCTTT	CCTGTAGGAA	ACAGGAGCTC
	AATATTTTTTC	GCTGTGCATG	GGGTATAGTT	TTATCAGAAA	GGACATCCTT	TGTCCTCGAG
4261	TCCATAAGGA	ATTATCATGA	GTGTGTTCTC	CCATCAGTGC	ACTCTCCCAG	GGGTGCTCAC
	AGGTATTCCT	TAATAGTACT	CACACAAGAG	GGTAGTCACG	TGAGAGGGTC	CCCACGAGTG
4321	TGAAGCTGGT	CCACRTCTAT	AAACAGGTGA	CACTGGCTGC	AGCAAAAAGC	CATTGATCC
	ACTTCGACCA	GGTGYAGATA	TTTGTCCACT	GTGACCGACG	TCGTTTTTCG	GTAAGCTAGG
4381	ACACAAATTG	ATCTTCTATC	ATCTTGGAAT	CTGAATTGCA	GGGAGGAGCA	GYATGTAAGA
	TGTGTTTAAC	TAGAAGATAG	TAGAACCTTA	GACTTAACGT	CCCTCCTCGT	CRTACATTCT
4441	CGACCGTTTTA	ATTCAGGCAT	TCCGAAGGCA	TGAGCGCATG	GATTCTRTCA	CCAAGCGTAT
	GCTGGCAAAT	TAAGTCCGTA	AGGCTTCCGT	ACTCGCGTAC	CTAAGAYAGT	GGTTCGCATA
4501	AAAAGGACCC	TGGCATTGGG	AAACCTATGA	CGGACTGTTT	TTGCTGTAGA	AGTAGGGATT
	TTTTCTGGG	ACCGTAACCC	TTTGGATACT	GCCTGACAAA	AACGACATCT	TCATCCCTAA
4561	TTACAGAAGT	CTCCTTGRAT	TTGCCCTGCC	TGGGGCAGTT	TTGCAGAGGA	ACCTGCCAGA
	AATGTCTTCA	GAGGAACYTA	AACGGGACGG	ACCCCGTCAA	AACGTCTCCT	TGGACGGTCT
4621	GATTTATTGG	CTGGTCAGTC	TCTTGTGAAA	TAGTATCATG	TGAGAAACAG	TTTGTAGAAA
	CTAAATAACC	GACCAGTCAG	AGAACACTTT	ATCATAGTAC	ACTCTTTGTC	AAACATCTTT
4681	AAAACATATC	CTGGGAAGAC	CTTTGCAACA	TTGTTCTTTC	CATGGGCCAA	GACTCAGTTA
	TTTTGATATG	GACCCCTCTG	GAAACGTTGT	AACAAGGAAG	GTACCCGGTT	CTGAGTCAAT
4741	GGAGGCATAA	ATCTGCCCCG	AATAAACTAG	GCCAGGATAC	AGCCATGTTT	AGTTAATAAT
	CCTCCGTATT	TAGACGGGCC	TTATTTGATC	CGGTCTATG	TCGGTACAAA	TCAATTATTA
4801	TTGGTTTTAG	AATTCACACA	GGCAGGATTG	GTTTTTTTGT	GTCTTGGCAA	GTGGAGCATA
	AACCAAAATC	TTAAGTGTGT	CCGTCCTAAC	CAAAAAACA	CAGAACCGTT	CACCTCGTAT
4861	TTTAACATAC	AGGCATGGGA	ATCCTGCCTC	TTAGCTTTTC	CCACCCTCTT	GTCTACCAA
	AAATTGTATG	TCCGTACCCT	TAGGACGGAG	AATCGAAAAG	GGTGGGAGAA	CAGAGTGGTT
4921	GTTTTTTCTC	TCCAAAGGTT	TCCAGGAATT	TCTCATTAAT	GGCTGATGCA	AACTTAGTGA
	CAAAAAAGAG	AGGTTTCCAA	AGGTCCTTAA	AGAGTAATTA	CCGACTACGT	TTGAATCACT
4981	ATAATAATGA	ATATAAACAA	TGCTCACCTC	ACCAAAATTA	TATTATTTGC	AGTCATTTGT
	TATTATTACT	TATATTTGTT	ACGAGTGGAG	TGGTTTTAAT	ATAATAAACG	TCAGTAAACA





Figure 15 (cont.)

5041	GATAACACAA	ATTTTATCGC	AATGGTTATT	ATTTAATTTG	TGGCCACACA	CTGTGGTTAT
	CTATTGTGTT	TAAAATAGCG	TTACCAATAA	TAAATTAAAC	ACCGGTGTGT	GACACCAATA
5101	CTTTTGTTGT	GGTTGTTTCT	GAGAAAATGT	TCTTGGATAT	GTAAGTGCCA	ATACCAAGTGT
	GAAAACAACA	CCAACAAAGA	CTCTTTTACA	AGAACCTATA	CATTACACGGT	TATGGTCACA
5161	GAAGTATTGA	TCCCGGGCAG	CAAATACAG	CCTAAGGTTT	GTAAACATCA	ATTCTATCTC
	CTTCATAACT	AGGGCCCGTC	GTTTTATGTC	GGATTCCAAA	CATTTGTAGT	TAAGATAGAG
5221	AGTTCATCAG	AGGGCCTGAG	AAGCTGCGGG	GCAGTGTAAG	GTAAAGTATG	CTGGGCTGGT
	TCAAGTAGTC	TCCCGGACTC	TTCGACGCC	CGTCACATTT	CATTTTCATAC	GACCCGACCA
5281	GGTGGTCAGC	CTCCCCTTGC	CAAGAAGAGA	GCAATTGAAT	CCTGTCCCCA	GCTCCCCTCCA
	CCACCAGTCG	GAGGGGAACG	GTTCTTCTCT	CGTTAACTTA	GGACAGGGGT	CGAGGGAGGT
5341	CGCCTGAAGA	GTGACCAAGT	CTGGCCCCGAC	GGATCGCTGA	GATATTCTCC	CATAATGGCA
	GCGGACTTCT	CACCTGGTCAC	GACCGGGCTG	CCTAGCGACT	CTATAAGAGG	GTATTACCGT
5401	AAAAAATAGG	CAGTTTGATG	TGACCTGTTT	AGTGTGGCTC	TCCTCTTTTG	AGCATGTGTT
	TTTTTTATCC	GTCAAACACT	ACTGGACAAA	TCACACCGAG	AGGAGAAAAC	TCGTACACAA
5461	AGCATTTTTA	TTTTATACTC	ATCCAGTGAA	CTCTGCTCTT	CCAAGTGTGT	TCATGTATGT
	TCGTAAAAAT	AAAATATGAG	TAGGTCACCT	GAGACGAGAA	GGTTCACACA	AGTACATACA
5521	GCTAGATATA	TTAGCACAGC	CTGCCTTCTG	CTGCACAACG	CCTTAGAGAC	CCGGCCTTTC
	CGATCTATAT	AATCGTGTCT	GACGGAAGAC	GACGTGTTGC	GGAATCTCTG	GGCCGGAAAG
5581	AATGAGCTTA	GCTTGTGCTC	TGTTTCTGCT	CTCTTAGGTC	TAACTATGG	TGTCAGTTTT
	TTACTCGAAT	CGAACACGAG	ACAAAGACGA	GAGAATCCAG	ATTTGATACC	ACAGTCAAAA
5641	AATAGAACAA	AAGTATGCAT	CTTGCCCTGG	CTTGAGCCTT	TCGTTTTTCA	ATGCTGACTT
	TTATCTTGTT	TTCATACGTA	GAACGGAACC	GAACCTCGGA	AAGCAAAAGT	TACGACTGAA
5701	CTCCCCTTTC	TCTCCTGTGC	TCACCTTACC	TTTCCAGAGT	GTAAGGGACA	ACTTTTAAGG
	GAGGGGAAAG	AGAGGACACG	AGTGGAATGG	AAAGGTCTCA	CATTCCCTGT	TGAAAATTCC
5761	AGGCGTGTCC	CTGGTAGGGG	CATCCCTGTT	CACCAGGTGC	CTGTCATCAC	CCCACCTGAC
	TCCGCACAGG	GACCATCCCC	GTAGGGACAA	GTGGTCCACG	GACAGTAGTG	GGGTGAAGTG
5821	TGACATCTAC	CCTGGTGACT	ATGGGTTCCCT	CTTGTGTTGTA	GGGAACGGTG	GCTCCAGGTG
	ACTGTAGATG	GGACCACTGA	TACCCAAGGA	GAACAAACAT	CCCTTGCCAC	CGAGGTCCAC
5881	GAGGCATCAA	TCTGTTGGGT	TCTGGTTCCC	GGCTGCCTTT	GGTTTTGAAA	GTCTCTTCTC
	CTCCGTAAGT	AGACAACCCA	AGACCAAGGG	CCGACGGAAA	CCAAACTTTT	CAGAGAAGAG
5941	TGTATATTCC	TACCCTGCAT	TTGCTTTGTG	TGGTGCTGAT	GCTGTGGCAG	TAGGATCTTG
	ACATATAAGG	ATGGGACGTA	AACGAAACAC	ACCACGACTA	CGACACCGTC	ATCCTAGAAC
6001	GATGACTCTC	CATCAGTCAC	AGACTCCCCC	TGTTGCAAAG	TGTCAGGCTG	ACTCGACAGT
	CTACTGAGAG	GTAGTCAGTG	TCTGAGGGGG	ACAACGTTTC	ACAGTCCGAC	TGAGCTGTCA
6061	CACCGTAAAA	TCTGAGTCAG	TCACACACAG	GCTGTCAGCC	ACGGCTTCCA	CTTGCATGGC
	GTGGCATTTT	AGACTCAGTC	AGTGTGTGTC	CGACAGTCGG	TGCCGAAGGT	GAACGTACCG
6121	TATTCTATTT	TCACACGTGA	GTTTCTGTTG	CTGGCTGGCT	GACTGGCATT	ATCTATGCTA
	ATAAGATAAA	AGTGTGCACT	CAAAGACAAC	GACCGACCGA	CTGACCGTAA	TAGATACGAT
6181	AGTTGAAATC	AGGAGTGTGC	CCAGCAGAGC	CCATCATTCT	CACTGTCTTT	GAAACAAAGC
	TCAACTTTAG	TCCTCACACG	GGTCGTCTCG	GGTAGTAAGA	GTGACAGAAA	CTTTGTTTCG
6241	TGTACGGTTT	GATCGATGAA	CGTATTTAAA	GCATTTTCATG	CAATGACAAA	GTGCTCAGTA
	ACATGCCAAA	CTAGCTACTT	GCATAAATTT	CGTAAAGTAC	GTTACTGTTT	CACGAGTCAT



Figure 15 (cont.)

6301	GTGGAAGGCA	GGCTGTGACC	AGTCTGCCTG	CTCCTTACTA	TAATTGTGAG	GATTTGTTAC
	CACCTTCCGT	CCGACACTGG	TCAGACGGAC	GAGGAATGAT	ATTAACACTC	CTAAACAATG
6361	TGGAACAGTA	CATGGAGGCC	TGACCTTGTG	GGGGCACAGG	GTGGAACCTT	AGCTGAATAT
	ACCTTGTGAT	GTACCTCCGG	ACTGGAACAC	CCCCGTGTCC	CACCTTGGAA	TCGACTTATA
6421	AGTGTGTGTC	TCAAGAGGAA	GTCAGGGTAC	TAGCTCAGTG	CTCAATCTCC	AGGTACTATA
	TCACACACAG	AGTTCTCCTT	CAGTCCCATG	ATCGAGTCAC	GAGTTAGAGG	TCCATGATAT
6481	TATACATTTG	CCCGTTTTAT	CTCTAATGTG	AAATAAATCC	CCAAACACTT	GTTTATCGTG
	ATATGTAAAC	GGGCAAAATA	GAGATTACAC	TTTATTTAGG	GGTTTGTGAA	CAAATAGCAC
6541	TAGCGTACCT	AAAAGACTAT	TCTATTATGG	GTGTCCCCAC	TTTCTTGGTT	TGGTCACCCC
	ATCGCATGGA	TTTTCTGATA	AGATAATACC	CACAGGGGTG	AAAGAACCAA	ACCAGTGGGG
6601	GATCCCCCGG	TCTTCTGCTG	TATCTAGAAC	AGTGACTIONA	AATGATGTAT	GGGAATAGTG
	CTAGGGGGCC	AGAAGACGAC	ATAGATCTTG	TCACTGATAT	TTACTACATA	CCCTTATCAC
6661	TTTCCATATG	ATCTGTTGTC	TGGAGTATAT	GCTACATGTT	CATTTACTGT	ACAAAAACCC
	AAAGGTATAC	TAGACAACAG	ACCTCATATA	CGATGTACAA	GTAAATGACA	TGTTTTTGGG
6721	AGTGCAGCTG	ATGATGCAAA	GCAGTCTCTC	TCTGTGTACA	GTGCCCCACC	TATTTAAAAA
	TCACGTCGAC	TACTACGTTT	CGTCAGAGAG	AGACACATGT	CACGGGGTGG	ATAAATTTTT
6781	TCACGTACAA	NCCCAGAACA	CTGTGAAACA	CTTAACATAA	GAAACAAACG	CAGCGTCTGG
	AGTGCATGTT	NGGGTCTTGT	GACACTTTGT	GAATTGTATT	CTTTGTTTGC	GTCGCAGACC
6841	ATTCTTTCCA	AGGAGAGCAG	CTTTCTCCAC	AGGAACACAG	TAACAAAAGA	GGTCCGCCGC
	TAAGAAAGGT	TCCTCTCGTC	GAAAGAGGTG	TCCTTGTGTC	ATTGTTTTCT	CCAGGCGGCG
6901	CATCCACACC	CAGCCAAGAC	ACCTCAGAGG	CCATAGGGAC	AACCTCCTTG	CTGGCCAACA
	GTAGGTGTGG	GTCGGTTCTG	TGGAGTCTCC	GGTATCCCTG	TTGGAGGAAC	GACCGGTTGT
6961	CCTGCTGGAG	CAGGGCACAG	GTCCAGCAAA	CTGATCCTCA	GTGGATGGGT	CCGCAGTCAA
	GGACGACCTC	GTCCCGTGTC	CAGGGTCGTT	GACTAGGAGT	CACCTACCCA	GGCGTCAGTT
7021	AGCCTTAATG	GGCTCTCTTT	TGAAGGGGAA	AGAAANNTTT	CAAGCTTATG	ATATCCAACA
	TCGGAATTAC	CCGAGAGAAA	ACTTCCCCTT	TCTTTNNAAA	GTTTGAATAC	TATAGGTTGT
7081	TTATTATAGT	TGATGAGTTA	GTAAATTCCG	AAAAAAAAAAG	ATGATTTTAT	ATGTATGACA
	AATAATATCA	ACTACTCAAT	CATTTAAGGC	TTTTTTTTTC	TACTAAAATA	TACATACTGT
7141	TAAAAAAAAT	CTTTGTAAAG	TGCGCAAGTG	CAATAATTTA	AAGAGGTCTT	ATCTTTGCAT
	ATTTTTTTTA	GAAACATTTT	ACGCGTTTAC	GTTATTAAAT	TTCTCCAGAA	TAGAAACGTA
7201	TTATAAATTA	TAAATATTGT	ACATGTGTGT	AATTTTTTCAT	GTATTCATTT	GCAGTCTTTG
	AATATTTAAT	ATTTATAACA	TGTACACACA	TTAAAAAGTA	CATAAGTAAA	CGTCAGAAAC
7261	TATTTAAAAA	AACTTTACTG	TTATGTTTGT	ATAATAGAAC	ATTAATCATT	TATTATAACT
	ATAAATTTTT	TTGAAATGAC	AATACAAACA	TATTATCTTG	TAATTAGTAA	ATAATATTGA
7321	CAGACAAGGT	GTAAATAAAT	TCATAATTCA	AACAGCCAGT	ATATATGCAT	ATATGGGTGT
	GTCTGTTCCA	CATTTATTTA	AGTATTAAGT	TTGTCCGTCA	TATATACGTA	TATACCCACA
7381	TACATTGCAA	AAATCTCTAT	CTTTGTTCTA	TTCACATGCT	TAAAGAAGTA	AGAAATCTTT
	ATGTAACGTT	TTTAGAGATA	GAAACAAGAT	AAGTGACGA	ATTTCTTCAT	TCTTTAGAAA
7441	TGTGGATATG	TAATTATACA	TATAAAGTAT	ATATATATGT	ATGATACATG	AAATATATTT
	ACACCTATAC	ATTAATATGT	ATATTTTATA	TATATATACA	TACTATGTAC	TTTATATAAA
7501	AGAAATGTTT	ATAATTTTAA	TGGATATTCT	TTGGTGTGAA	TAATTGAATA	CAACATTTTT
	TCTTTACAAG	TATTAAAATT	ACCTATAAGA	AACCACACTT	ATTAACCTAT	GTTGTAAAAA



## Figure 15 (cont.)

Title: Gen Necessary for Striatal Function...  
Inventor(s): Robertson, et al.  
Application No.: 10/659,770  
Docket No.: 2817/102  
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7561 AAAATGAAAA AAAAAAAAAA C  
TTTTACTTTT TTTTTTTTTT G

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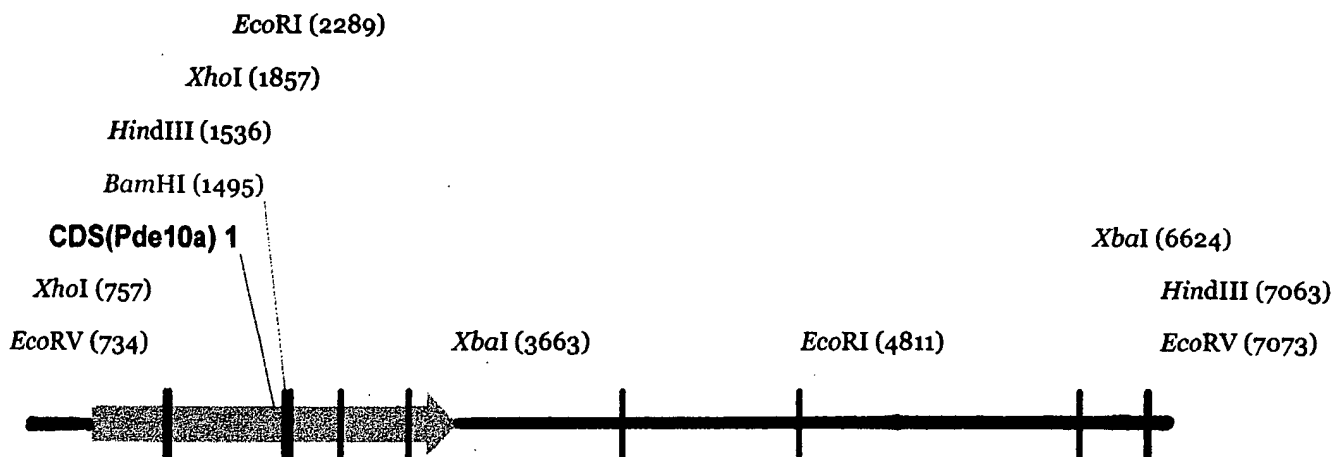


Figure 16

7581 bp



Figure 17

# PDE10A compiled - coding sequence and features

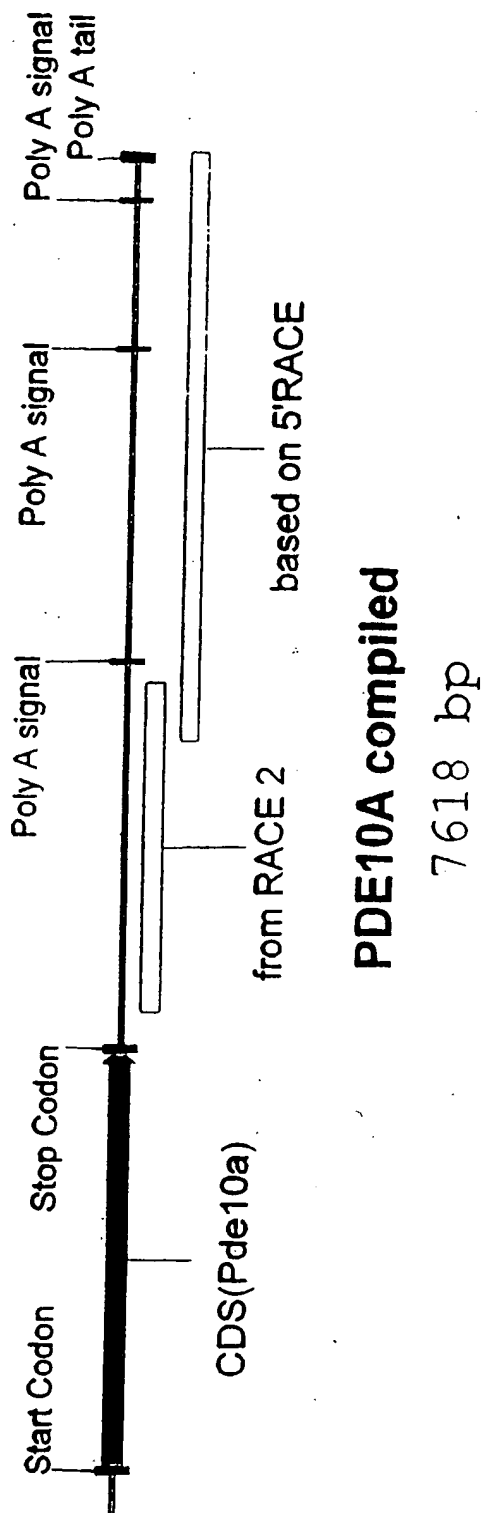




Figure 18  
PDE10A compiled - restriction sites

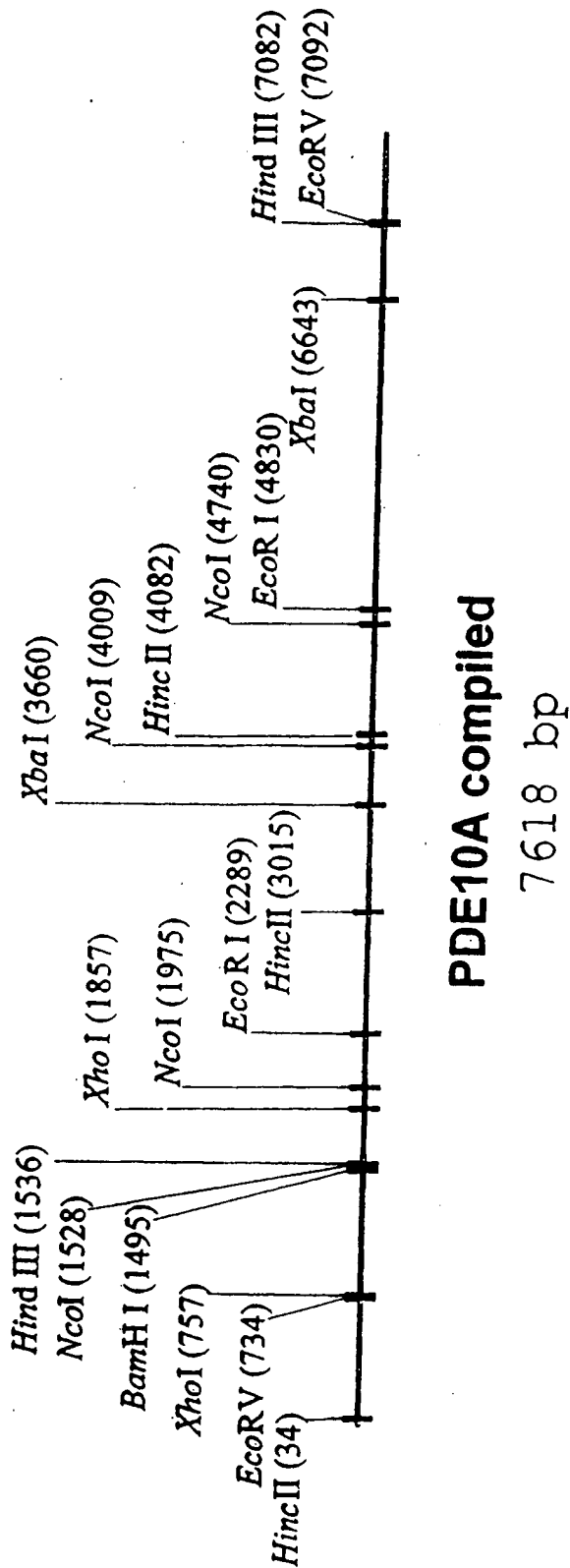




Figure 19

Title: Gene Necessary for Striatal Function...  
Inventor(s): Robertson, et al.  
Application No.: 10/659,770  
Docket No.: 2817/102  
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1	CGCCCGGGCA	GGTCTGTTGG	AGGGCAGTTG	GTCAACCTGA	CCAGAGAGAG	CTGAGCTGGA
	GCGGGCCCCGT	CCAGACAACC	TCCCGTCAAC	CAGTTGGACT	GGTCTCTCTC	GA CTGACCT
61	AGACCCCACT	GATGGTGTGC	TGCCTTTTCT	TCCAGGAAGA	AAGAAAGGAA	GGATTCTGAG
	TCTGGGGTGA	CTACCACACG	ACGGAAAGTC	AGGTCCTTCT	TTCTTTCTCT	CCTAAGACTC
121	GATTTGGGCA	AAGCCACATT	CCTGGAGAAG	TCTGTATACT	GATGCCAAAC	CCAAGAGCTG
	CTAAACCCGT	TTCCGGTGTA	GGACCTCTTC	AGACATATGA	CTACGGTTTG	GGTTCTCGAC
181	AGCTGCTGAT	GAGGCCCAGG	GAGTAGCCCA	CGCGCCCTGA	GCTGTTGGCT	AGCAAGGCCT
	TCGACGACTA	CTCCGGGTCC	CTCATCGGGT	GCGCGGGACT	CGACAACCGA	TCGTTCCGGA
241	TCCTGCTCCA	TGTGGCATGG	AAAAATTATA	TGGTTTGACG	GATGAAAAGG	TGAAGGCCTA
	AGGACGAGGT	ACACCGTACC	TTTTTAATAT	ACCAAAGTGC	CTACTTTTCC	ACTTCCGGAT
301	TCTTTCTCTC	CATCCCCAGG	TATTAGATGA	ATTTGTTTCT	GAAAGTGTTA	GTGCAGAGAC
	AGAAAGAGAG	GTAGGGGTCC	ATAATCTACT	TAAACAAAGA	CTTTCACAAT	CACGTCTCTG
361	TGTGGAAAAG	TGGCTGAAGA	GGAAAACCAA	CAAAGCAAAA	GATGAACCAT	CTCCCAAGGA
	ACACCTTTTC	ACCGACTTCT	CCTTTTGGTT	GTTTCGTTTT	CTACTTGGTA	GAGGGTTCCT
421	AGTCAGCAGG	TACCAGGATA	CGAATATGCA	GGGAGTCGTG	TACGAGCTGA	ACAGCTACAT
	TCAGTCGTCC	ATGGTCCTAT	GCTTATACGT	CCCTCAGCAC	ATGCTCGACT	TGTCGATGTA
481	AGAGCAGCGC	CTGGACACGG	GCGGGGACAA	CCACCTGCTC	CTCTATGAGC	TCAGCAGCAT
	TCTCGTCGCG	GACCTGTGCC	CGCCCTGTT	GGTGGACGAG	GAGATACTCG	AGTCGTCGTA
541	CATCAGGATA	GCCACAAAAG	CCGACGGATT	TGCACTGTAC	TTCCTTGGAG	AGTGCAATAA
	GTAGTCCTAT	CGGTGTTTTT	GGCTGCCTAA	ACGTGACATG	AAGGAACCTC	TCACGTTATT
601	TAGCCTGTGT	GTGTTCATAC	CACCCGGGAT	GAAGGAAGGC	CAACCCCGGC	TCATCCCTGC
	ATCGGACACA	CACAAGTATG	GTGGGCCCTA	CTTCCTTCCG	GTTGGGGCCG	AGTAGGGACG
661	AGGGCCCATC	ACCCAGGGTA	CCACCATCTC	TGCCTACGTG	GCCAAGTCTA	GGAAGACGTT
	TCCCGGGTAG	TGGGTCCCAT	GGTGGTAGAG	ACGGATGCAC	CGGTTGAGAT	CCTTCTGCAA
721	GTTGGTAGAG	GATATCCTTG	GGGATGAGCG	ATTTCTCTGA	GGTACTGGCC	TGGAATCAGG
	CAACCATCTC	CTATAGGAAC	CCCTACTCGC	TAAAGGAGCT	CCATGACCGG	ACCTTAGTCC
781	AACCCGCATC	CAGTCTGTTC	TTTGCTTGCC	CATTGTCACT	GCCATTGGAG	ACTTGATTGG
	TTGGGCGTAG	GTCAGACAAG	AAACGAACGG	GTAACAGTGA	CGGTAACCTC	TGAACCTAAC
841	CATCCTTGAA	CTGTACAGGC	ACTGGGGCAA	AGAGGCCTTC	TGCCTCAGCC	ATCAGGAGGT
	GTAGGAACTT	GACATGTCCG	TGACCCCGTT	TCTCCGGAAG	ACGGAGTCGG	TAGTCCTCCA
901	TGCAACAGCC	AATCTTGCTT	GGGCTTCCGT	AGCAATACAC	CAGGTGCAGG	TGTGTAGAGG
	ACGTTGTCCG	TTAGAACGAA	CCCGAAGGCA	TCGTTATGTG	GTCCACGTCC	ACACATCTCC
961	TCTCGCCAAA	CAGACCGAAC	TGAATGACTT	CCTACTCGAC	GTATCAAAGA	CATACTTTGA
	AGAGCGGTTT	GTCTGGCTTG	ACTTACTGAA	GGATGAGCTG	CATAGTTTCT	GTATGAAACT
1021	TAACATAGTT	GCCATAGACT	CTCTACTTGA	ACACATCATG	ATATATGCAA	AAAATCTAGT
	ATTGTATCAA	CGGTATCTGA	GAGATGAACT	TGTGTAGTAC	TATATACGTT	TTTTAGATCA
1081	GAACGCCGAC	CGCTGCGCGC	TCTTCCAGGT	GGACCACAAG	AACAAGGAGC	TGTACTCGGA
	CTTGCGGCTG	GCGACGCGCG	AGAAGGTCCA	CCTGGTGTTT	TTGTTCCCTG	ACATGAGCCT
1141	CCTGTTTGAC	ATTGGGGAGG	AGAAGGAGGG	GAAGCCCATC	TTCAAGAAGA	CCAAGGAGAT
	GGACAAACTG	TAACCCCTCC	TCTTCCCTCC	CTTCGGGTAG	AAGTTCTTCT	GGTTCTCTTA
1201	CAGATTTTCC	ATTGAGAAAAG	GGATTGCTGG	TCAAGTGGCA	AGAACAGGCG	AAGTCTTGAA
	GTCTAAAAGG	TAACCTTTTC	CCTAACGACC	AGTTCACCGT	TCTTGTCCGC	TTCAGAACTT



## Figure 19 (cont.)

1261	CATTCCCGAT	GCCTACGCGG	ACCCTCGCTT	TAACAGGGAG	GTGGACCTGT	ACACAGGCTA
	GTAAGGGCTA	CGGATGCGCC	TGGGAGCGAA	ATTGTCCCTC	CACCTGGACA	TGTGTCCGAT
1321	CACCACGAGG	AACATTCTGT	GTATGCCCAT	AGTGAGCCGA	GGCAGCGTGA	TTGGCGTGGT
	GTGGTGCTCC	TTGTAAGACA	CATACGGGTA	TCACTCGGCT	CCGTGCGACT	AACCGCACCA
1381	GCAGATGGTG	AACAAGATCA	GCGGTAGCGC	CTTCTCCAAG	ACAGACGAGA	ACAACTTCAA
	CGTCTACCAC	TTGTTCTAGT	CGCCATCGCG	GAAGAGGTTT	TGTCTGCTCT	TGTTGAAGTT
1441	GATGTTTGCT	GTCTTCTGCG	CACTGGCCTT	GCACTGTGCT	AACATGTACC	ACAGGATCCG
	CTACAAACGA	CAGAAGACGC	GTGACCGGAA	CGTGACACGA	TTGTACATGG	TGTCCTAGGC
1501	CCACTCAGAA	TGCATCTACA	GGGTACCAT	GGAGAAGCTT	TCCTACCACA	GCATCTGCAC
	GGTGAGTCTT	ACGTAGATGT	CCCAATGGTA	CCTCTTCGAA	AGGATGGTGT	CGTAGACGTG
1561	CTCCGAGGAG	TGGCAAGGCC	TCATGCGCTT	CAACCTACCA	GCACGCATCT	GCCGGGACAT
	GAGGCTCCTC	ACCGTTCCGG	AGTACGCGAA	GTTGGATGGT	CGTGCGTAGA	CGGCCCTGTA
1621	CGAGCTATTC	CACTTTGACA	TTGGTCCTTT	CGAGAACATG	TGGCCTGGGA	TCTTTGTCTA
	GCTCGATAAG	GTGAAACTGT	AACCAGGAAA	GCTCTTGTA	ACCGGACCCT	AGAAACAGAT
1681	CATGATCCAT	CGGTCTTGTT	GGACATCCTG	TTTTGAACCT	GAAAAATTGT	GCCGTTTTAT
	GTACTAGGTA	GCCAGAACAC	CCTGTAGGAC	AAAACCTGAA	CTTTTTAACA	CGGCAAAATA
1741	CATGTCTGTG	AAGAAGAACT	ATCGGCGGGT	TCCTTACCAC	AACTGGAAGC	ATGCAGTCAC
	GTACAGACAC	TTCTTCTTGA	TAGCCGCCCA	AGGAATGGTG	TTGACCTTCG	TACGTCAGTG
1801	GGTGGCACAC	TGCATGTATG	CCATACTTCA	AAACAACAAT	GGCCTCTTCA	CAGACCTCGA
	CCACCGTGTG	ACGTACATAC	GGTATGAAGT	TTTGTGTGTA	CCGGAGAAGT	GTCTGGAGCT
1861	GCGCAAAGGC	CTGCTAATTG	CGTGCTGTG	CCATGACCTG	GACCACAGGG	GCTTCAGTAA
	CGCGTTTCCG	GACGATTAAC	GCACAGACAC	GGTACTGGAC	CTGGTGTTCC	CGAAGTCATT
1921	CAGCTACCTG	CAGAAGTTCG	ACCACCCCTT	GGCGGCGCTG	TACTCCACCT	CCACCATGGA
	GTCGATGGAC	GTCTTCAAGC	TGGTGGGGGA	CCGCCGCGAC	ATGAGGTGGA	GGTGGTACCT
1981	GCAACACCAC	TTCTCCCAGA	CGGTGTCCAT	CCTTCAGCTG	GAAGGGCACA	ATATCTTCTC
	CGTTGTGGTG	AAGAGGGTCT	GCCACAGGTA	GGAAGTCGAC	CTTCCCGTGT	TATAGAAGAG
2041	CACCCTGAGC	TCCAGCGAGT	ACGAGCAGGT	GCTGGAGATC	ATCCGCAAAG	CCATCATCGC
	GTGGGACTCG	AGGTCGCTCA	TGCTCGTCCA	CGACCTCTAG	TAGGCGTTTC	GGTAGTAGCG
2101	CACCGACCTC	GCCCTATACT	TTGGGAACAG	GAAGCAGTTG	GAGGAGATGT	ACCAGACAGG
	GTGGCTGGAG	CGGGATATGA	AACCCTTGTC	CTTCGTCAAC	CTCCTCTACA	TGGTCTGTCC
2161	GTCGCTGAAC	CTCCACAACC	AGTCCCATCG	AGACCGTGTC	ATCGGCTTGA	TGATGACTGC
	CAGCGACTTG	GAGGTGTTGG	TCAGGGTAGC	TCTGGCACAG	TAGCCGAAC	ACTACTGACG
2221	CTGTGATCTT	TGCTCTGTGA	CCAACTATG	GCCAGTTACA	AAATTGACAG	CGAATGATAT
	GACACTAGAA	ACGAGACACT	GGTTTGATAC	CGGTCAATGT	TTTAACTGTC	GCTTACTATA
2281	ATATGCAGAA	TTCTGGGCTG	AGGGTGATGA	GATGAAGAAG	CTGGGCATAC	AGCCCATTC
	TATACGTCTT	AAGACCCGAC	TCCCACTACT	CTACTTCTTC	GACCCGTATG	TCGGGTAAGG
2341	TATGATGGAC	AGAGACAAGC	GAGATGAAGT	CCCTCAAGGG	CAGCTCGGAT	TCTACAATGC
	ATACTACCTG	TCTCTGTTCC	CTCTACTTCA	GGGAGTTCCC	GTCGAGCCTA	AGATGTTACG
2401	TGTGGCCATT	CCCTGCTATA	CCACCTTGAC	GCAGATCCTC	CCACCCACAG	AGCCTCTGCT
	ACACCGGTAA	GGGACGATAT	GGTGGAAGT	CGTCTAGGAG	GGTGGGTGTC	TCGGAGACGA
2461	GAAGGCCTGC	AGGGATAACC	TCAATCAGTG	GGAGAAGGTA	ATTGCGGGGG	AAGAGACAGC
	CTTCCGGACG	TCCCTATTGG	AGTTAGTCAC	CCTCTTCCAT	TAAGCGCCCC	TTCTCTGTGC





Figure 19 (cont.)

2521	AATGTGGATT	TCAGGCCCAG	GCCCCGGCGCC	TAGCAAGAGC	ACACCTGAGA	AGCTGAACGT
	TTACACCTAA	AGTCCGGGTC	CGGGCCGCGG	ATCGTTCTCG	TGTGGACTCT	TCGACTTGCA
2581	GAAGGTTGAA	GACTGATCCT	GAAGTGACGT	CCTGATGTCT	GCCCAGCAAC	CGACTCAACC
	CTTCCAACTT	CTGACTAGGA	CTTCACTGCA	GGACTACAGA	CGGGTCGTTG	GCTGAGTTGG
2641	TGCTTCTGTG	ACTTCGTTCT	TTTTGTTTTT	AAGGGGTGAA	AACCCCTGT	CAGAAGGTAC
	ACGAAGACAC	TGAAGCAAGA	AAAACAAAAG	TTCCCCACTT	TTGGGGGACA	GTCTTCCATG
2701	CGTCGCATAT	CCATGTGAAG	CAGACGACTC	CCTGCTTGCC	GCACACACCT	CGGACAGTGA
	GCAGCGTATA	GGTACACTTC	GTCTGCTGAG	GGACGAACGG	CGTGTGTGGA	GCCTGTCACT
2761	GCAACCCAGG	CTCTGCCGTG	TTCAGACGTC	GGCTACTCCG	TGGCTCCACC	TGACCTCCGA
	CGTTGGGTCC	GAGACGGCAC	AAGTCTGCAG	CCGATGAGGC	ACCGAGGTGG	ACTGGAGGCT
2821	ATGCTATTTG	CTCCCAGGCC	AGCACTGCAC	TGTCTGGAGG	GGGCAGAGAC	CACAGGAGAG
	TACGATAAAC	GAGGGTCCGG	TCGTGACGTG	ACAGACCTCC	CCCGTCTCTG	GTGTCCCTCTC
2881	GTTCTTGCCT	GCATCCTCCC	ATGAGGGTGT	GGCCAGTTCC	CTAGTTCTGT	GCCATGCTGC
	CAAGAACGGA	CGTAGGAGGG	TACTCCCACA	CCGGTCAAGG	GATCAAGACA	CGGTACGACG
2941	TGCTTGGTGG	CATTGGTTAG	GAATGGGACA	CACGCCCTT	GTTGTGAAGT	TTACATGTGA
	ACGAACCACC	GTAACCAATC	CTTACCCTGT	GTGCGGGGAA	CAACACTTCA	AATGTACACT
3001	CCTTCTTATA	GGTTAACTGA	GTTTGTGGCC	TGGGACACAT	GTAATGAAGG	TCACAGTCCA
	GGAAGAATAT	CCAATTGACT	CAAACACCGG	ACCCTGTGTA	CATTACTTCC	AGTGTCAAGT
3061	CAGGTGACAG	AGAAATCCAA	ACTGTTGATT	ACAGGTGCAC	TACAGGTATG	CTCTTTCAGT
	GTCCACTGTC	TCTTTAGGTT	TGACAACTAA	TGTCCACGTG	ATGTCCATAC	GAGAAAGTCA
3121	CTATCTGGGG	GCACATAGGT	GAGTCTGCTC	CACTCAGAAG	GAAGCATACC	TCTSCCCTCA
	GATAGACCCC	CGTGTATCCA	CTCAGACGAG	GTGAGTCTTC	CTTCGTATGG	AGASGGGAGT
3181	TCCAGGGGAC	ACAGGGTACA	TCCCAGGCAT	CGGGGAACTG	AAGCTCTCAC	TTCAAACCAT
	AGGTCCCCTG	TGTCCCATGT	AGGGTCCGTA	GCCCCTTGAC	TTCGAGAGTG	AAGTTTGGTA
3241	GTCAAAGAAT	TAAACACCT	CCCCTCCCC	TCACTGTAGC	CTTCGGCAAC	TGCGCCAATC
	CAGTTTCTTA	ATTTTGTGGA	GGGGAGGGGG	AGTGACATCG	GAAGCCGTTG	ACGCGGTTAG
3301	CCTTTATACA	AAGAAAATAT	AAGTAAGGCA	TATAAATTTT	CTCCAGCAAG	CAAATCTTGT
	GGAAATATGT	TTCTTTTATA	TTCATTCCGT	ATATTTAAAG	GAGGTCGTTC	GTTTAGAACA
3361	GGGTAAAAAA	AAAAAATGTG	AATTTTAACA	ACCTCTATAT	TTTCACTGTA	TGTTATGGCA
	CCCATTTTTT	TTTTTTACAC	TTAAAATTGT	TGGAGATATA	AAAGTGACAT	ACAATACCGT
3421	GAATTTTAGT	CACGTCCAAA	ACAAAAGATT	ATTCCAGAAG	ATACCTCATC	CTATGCCTGA
	CTTAAAATCA	GTGCAGGTTT	TGTTTTCTAA	TAAGGTCTTC	TATGGAGTAG	GATACGGACT
3481	AAGCTCCACA	GCATGGCGTC	CGTCTCCCAG	GGTTCTGATC	CGTCTCCTCA	CGGTGCAATC
	TTCGAGGTGT	CGTACCGCAG	GCAGAGGGTC	CCAAGACTAG	GCAGAGGAGT	GCCACGTTAG
3541	AGGCAGGACA	GGAGGAGGTG	CAGGGCTACC	ACATTGACCC	AGATGGTATC	TCCTCTCACC
	TCCGTCTGT	CCTCCTCCAC	GTCCCGATGG	TGTAAGTGGG	TCTACCATAG	AGGAGAGTGG
3601	ATTGAGACAT	CCATAAGGAA	TGCCAAATGC	TGTATTGAAT	AGTTCTCCTG	TGTGACTTTC
	TAAGTCTGTA	GGTATTCCTT	ACGGTTTACG	ACATAACTTA	TCAAGAGGAC	ACACTGAAAG
3661	TAGAGAAGCC	AGGACACCCC	TGAGCCTTTC	CTGGGAACTC	CTAAGGAAGT	CACAGGTTCA
	ATCTCTTCGG	TCCTGTGGGG	ACTCGGAAAG	GACCCCTGAG	GATTCTTCA	GTGTCCAAGT
3721	CACCGTGGGG	ATTTTCAGGA	TAGCATGGAG	ACCAGAGAAT	CCCGGTTCCG	TTGTTCTCAC
	GTGGCACCCC	TAAAAGTCCT	ATCGTACCTC	TGGTCTCTTA	GGGCAAGCC	AACAAGAGTG



Figure 19 (cont.)

3781	TCGGTGAGCC	TTGAGAAGGA	AGAGACTGAC	CAGAAACACT	CACTCAGCAC	TCTGGCAGGA
	AGCCACTCGG	AACTCTTCCT	TCTCTGACTG	GTCTTTGTGA	GTGAGTCGTG	AGACCGTCTT
3841	GCAGGAGAAG	ATACTTTAAG	ATGAATCTTT	GGGATAGATT	TTGATACACC	CAATACCATA
	CGTCCTCTTC	TATGAAATTC	TACTTAGAAA	CCCTATCTAA	AACTATGTGG	GTTATGGTAT
3901	CACACAGGAG	CTTGGCATTT	GCAAAGTCTA	TTCAGTTTCC	TTCCACACTC	TGACCCACGG
	GTGTGTCCCTC	GAACCGTAAA	CGTTTCAGAT	AAGTCAAAGG	AAGGTGTGAG	ACTGGGTGCC
3961	TTGTAGCGGA	GTGGGCTGAA	CACTGTAACA	CTGTACATGC	GATTTCCTCA	TGGGCTTCTA
	AACATCGCCT	CACCCGACTT	GTGACATTGT	GACATGTACG	CTAAAGGGGT	ACCCGAAGAT
4021	AAATGTCACC	ATCTCCTCCC	CTGCTGTGTC	CTACTCCATT	TACTGGTTAC	AAGGTGATGT
	TTTACAGTGG	TAGAGGAGGG	GACGACACAG	GATGAGGTAA	ATGACCAATG	TTCCACTACA
4081	CAACAAGAGA	AGCTATCACA	ACACCAGGGC	TGTGCACACG	TGCACACACA	TGTATGCACA
	GTTGTTCTCT	TCGATAGTGT	TGTGGTCCCG	ACACGTGTGC	ACGTGTGTGT	ACATACGTGT
4141	AGCACACAGA	TGTATGTACA	GCACACACAC	ACACACACAC	CCCAAAAGGA	GAGAAAAGGA
	TCGTGTGTCT	ACATACATGT	CGTGTGTGTG	TGTGTGTGTG	GGGTTTTCTT	CTCTTTTCTT
4201	AGAAAACATT	TATAAAAAGC	GACAGCTACC	CCCATATTCA	AAAATAGTTC	TTTTCCCTGT
	TCTTTTGTA	ATATTTTTCG	CTGTGATGG	GGGTATAAGT	TTTTATCAAG	AAAAGGGACA
4261	AGGGAAACAG	GTAGCTCTCC	ATAAGGAAAT	TATCATGAGT	GTGTTCTCCC	ATCAGTGCAC
	TCCCTTTGTC	CATCGAGAGG	TATTCCTTTA	ATAGTACTCA	CACAAGAGGG	TAGTCACGTG
4321	TTCTCCCAGG	GGTGCTCACT	GAAGCTGGTC	CACGTCTATA	AACAGGTGAC	ACTGGCTGCA
	AAGAGGGTCC	CCACGAGTGA	CTTCGACCAG	GTGCAGATAT	TTGTCCACTG	TGACCGACGT
4381	GCAAAAAGCC	ATTCGATCCA	CACAAATTGA	TCTTCTATCA	TCTTGGAAATC	TGAATTGCAG
	CGTTTTTTCG	TAAGCTAGGT	GTGTTTAACT	AGAAGATAGT	AGAACCTTAG	ACTTAACGTC
4441	GGAGGAGCAG	CATGTAAGAC	GACCGTTTAA	TTCAGGCATT	CCGAAGGCAT	GAGCGCATGG
	CCTCCTCGTC	GTACATTCTG	CTGGCAAATT	AAGTCCGTAA	GGCTTCCGTA	CTCGCGTACC
4501	ATTCTGTCAC	CAAGCGTATA	AAAGGACCCT	GGCATTGGGA	AACCTATGAC	GGACTGTTTT
	TAAGACAGTG	GTTTCGCATAT	TTTCTGGGA	CCGTAACCCT	TTGGATACTG	CCTGACAAAA
4561	TGCTGTAGAA	GTAGGGATTT	TACAGAAGTC	TCCTTGATT	TGCCCTGCCT	GGGGCAGTTT
	ACGACATCTT	CATCCCTAAA	ATGTCTTCAG	AGGAACCTAA	ACGGGACGGA	CCCCGTCAAA
4621	TGCAGAGGAA	CCTGCCAGAG	ATTTATTGGC	TGGTCAGTCT	CTTGTGAAAT	AGTATCATGT
	ACGTCTCCTT	GGACGGTCTC	TAAATAACCG	ACCAGTCAGA	GAACACTTTA	TCATAGTACA
4681	GAGAAACAGT	TTGTAGAAAA	AAACTATACC	TGGGAAGACC	TTTGCAACAT	TGTTCTTCC
	CTCTTTGTCA	AACATCTTTT	TTTGATATGG	ACCCTTCTGG	AAACGTTGTA	ACAAGGAAGG
4741	ATGGGCCAAG	ACTCAGTTAG	GAGGCATAAA	TCTGCCCGGA	ATAAACTAGG	CCAGGATACA
	TACCCGGTTC	TGAGTCAATC	CTCCGTATTT	AGACGGGCCT	TATTTGATCC	GGTCCTATGT
4801	GCCATGTTTA	GTTAATAATT	TGGTTTTAGA	ATTCACACAG	GCAGGATTGG	TTTTTTTGTG
	CGGTACAAAT	CAATTATTAA	ACCAAAATCT	TAAGTGTGTC	CGTCCTAACC	AAAAAACAC
4861	TCTTGGAAG	TGGAGCATAT	TTAACATACA	GGCATGGGAA	TCCTGCCTCT	TAGCTTTTCC
	AGAACCGTTC	ACCTCGTATA	AATTGTATGT	CCGTACCCTT	AGGACGGAGA	ATCGAAAAGG
4921	CACCCTCTTG	TCTACCAAG	TTTTTCTCT	CCAAAGGTTT	CCAGGAATTT	CTCATTAATG
	GTGGGAGAAC	AGAGTGGTTC	AAAAAAGAGA	GGTTTCCAAA	GGTCCTTAAA	GAGTAATTAC
4981	GCTGATGCAA	ACTTAGTGAA	TAATAATGAA	TATAACAAT	GCTCACCTCA	CCAAAATTAT
	CGACTACGTT	TGAATCACTT	ATTATTACTT	ATATTTGTTA	CGAGTGGAGT	GGTTTAAATA



Figure 19 (cont.)

5041	ATTATTTGCA	GTCATTTGTG	ATAACACAAA	TTTTATCGCA	ATGGTTATTA	TTTAATTTGT
	TAATAAACGT	CAGTAAACAC	TATTGTGTTT	AAAATAGCGT	TACCAATAAT	AAATTAAACA
5101	GGCCACACAC	TGTGGTTATC	TTTTGTTGTG	GTTGTTTCTG	AGAAAATGTT	CTTGGATATG
	CCGGTGTGTG	ACACCAATAG	AAAACAACAC	CAACAAAGAC	TCTTTTACAA	GAACCTATAC
5161	TAAGTGCCAA	TACCAAGTGTG	AAGTATTGAT	CCCGGGCAGC	AAAATACAGC	CTAAGGTTTG
	ATTCACGGTT	ATGGTCACAC	TTCATAACTA	GGGCCCGTCG	TTTTATGTCG	GATTCCAAAC
5221	TAAACATCAA	TTCTATCTCA	GTTTCATCAGA	GGGCCTGAGA	AGCTGCGGGG	CAGTGTAAG
	ATTTGTAGTT	AAGATAGAGT	CAAGTAGTCT	CCCGGACTCT	TCGACGCCCC	GTCACATTTT
5281	TAAAGTATGC	TGGGCTGGTG	GTGGTCAGCC	TCCCCTTGCC	AAGAAGAGAG	CAATTGAATC
	ATTTTCATACG	ACCCGACCAC	CACCAGTCGG	AGGGGAACGG	TTCTTCTCTC	GTAACTTAG
5341	CTGTCCCCAG	CTCCCTCCAC	GCCTGAAGAG	TGACCAAGTGC	TGGCCCCGACG	GATCGCTGAG
	GACAGGGGTC	GAGGGAGGTG	CGGACTTCTC	ACTGGTCACG	ACCGGGCTGC	CTAGCGACTC
5401	ATATTCTCCC	ATAATGGCAA	AAAAATAGGC	AGTTTGATGT	GACCTGTTTA	GTGTGGCTCT
	TATAAGAGGG	TATTACCGTT	TTTTTATCCG	TCAAACCTACA	CTGGACAAAT	CACACCGAGA
5461	CCTCTTTTGA	GCATGTGTTA	GCATTTTAT	TTTATACTCA	TCCAGTGAAC	TCTGCTCTTC
	GGAGAAAAC	CGTACACAAT	CGTAAAAATA	AAATATGAGT	AGGTCACCTG	AGACGAGAAG
5521	CAAGTGTGTT	CATGTATGTG	CTAGATATAT	TAGCACAGCC	TGCCTTCTGC	TGCACAACGC
	GTTCACACAA	GTACATACAC	GATCTATATA	ATCGTGTGCG	ACGGAAGACG	ACGTGTTGCG
5581	CTTAGAGACC	CGGCCTTTCA	ATGAGCTTAG	CTTGTGCTCT	GTTTCTGCTC	TCTTAGGTCT
	GAATCTCTGG	GCCGGAAAGT	TACTCGAATC	GAACACGAGA	CAAAGACGAG	AGAATCCAGA
5641	AAACTATGGT	GTCAGTTTTA	ATAGAACAAA	AGTATGCATC	TTGCCTTGGC	TTGAGCCTTT
	TTTGATACCA	CAGTCAAAAT	TATCTTGTTT	TCATACGTAG	AACGGAACCG	AACTCGGAAA
5701	TCGTTTTTCAA	TGCTGACTTC	TCCCCTTTCT	CTCCTGTGCT	CACCTTACCT	TTCCAGAGTG
	AGCAAAAGTT	ACGACTGAAG	AGGGGAAAGA	GAGGACACGA	GTGGAATGGA	AAGGTCTCAC
5761	TAAGGGACAA	CTTTTAAGGA	GGCGTGTCCC	TGGTAGGGGC	ATCCCTGTTT	ACCAGGTGCC
	ATTCCCTGTT	GAAAATTCCT	CCGCACAGGG	ACCATCCCCG	TAGGGACAAG	TGGTCCACGG
5821	TGTCATCACC	CCACTTGACT	GACATCTACC	CTGGTGAATA	TGGGTTCCCT	TTGTTTGTAG
	ACAGTAGTGG	GGTGAAGTGA	CTGTAGATGG	GACCACTGAT	ACCCAAGGAG	AACAAACATC
5881	GGAACGGTGG	CTCCAGGTGG	AGGCATCAAT	CTGTTGGGTT	CTGTTTCCCG	GCTGCCTTTG
	CCTTGCCACC	GAGGTCCACC	TCCGTAGTTA	GACAACCCAA	GACCAAGGGC	CGACGGAAAC
5941	GTTTTGAAAG	TCTCTTCTCT	GTATATTCTT	ACCCTGCATT	TGCTTTGTGT	GGTGCTGATG
	CAAACTTTT	AGAGAAGAGA	CATATAAGGA	TGGGACGTAA	ACGAAACACA	CCACGACTAC
6001	CTGTGGCAGT	AGGATCTTGG	ATGACTCTCC	ATCAGTCACA	GACTCCCCCT	GTTGCAAAGT
	GACACCGTCA	TCCTAGAACC	TACTGAGAGG	TAGTCAGTGT	CTGAGGGGGA	CAACGTTTCA
6061	GTCAGGCTGA	CTCGACAGTC	ACCGTAAAT	CTGAGTCAGT	CACACACAGG	CTGTGAGCCA
	CAGTCCGACT	GAGCTGTCAG	TGGCATTTTA	GACTCAGTCA	GTGTGTGTCC	GACAGTCGGT
6121	CGGCTTCCAC	TTGCATGGCT	ATTCTATTTT	CACACGTGAG	TTTCTGTTGC	TGGCTGGCTG
	GCCGAAGGTG	AACGTACCGA	TAAGATAAAA	GTGTGCACTC	AAAGACAACG	ACCGACCGAC
6181	ACTGGCATT	TCTATGCTAA	GTTGAAATCA	GGAGTGTGCC	CAGCAGAGCC	CATCATTTCT
	TGACCGTAAT	AGATACGATT	CAACTTTAGT	CCTCACACGG	GTCGTCTCGG	GTAAGTAAGAG
6241	ACTGTCTTTG	AAACAAAGCT	GTACGGTTTG	ATCGATGAAC	GTATTTAAAG	CATTTTCATG
	TGACAGAAAC	TTTGTTCGA	CATGCCAAAC	TAGCTACTTG	CATAAATTC	GTAAAGTACG



Figure 19 (cont.)

6301	AATGACAAAG	TGCTCAGTAG	TGGAAGGCAG	GCTGTGACCA	GTCTGCCTGC	TCCTTACTAT
	TTACTGTTTC	ACGAGTCATC	ACCTTCCGTC	CGACACTGGT	CAGACGGACG	AGGAATGATA
6361	AATTGTGAGG	ATTTGTTACT	GGAACAGTAC	ATGGAGGCCT	GACCTTGTGG	GGGCACAGGG
	TTAACTACTCC	TAAACAATGA	CCTTGTCATG	TACCTCCGGA	CTGGAACACC	CCCGTGTCCC
6421	TGGAACCTTA	GCTGAATATA	GTGTGTGTCT	CAAGAGGAAG	TCAGGGTACT	AGCTCAGTGC
	ACCTTGGAAT	CGACTTATAT	CACACACAGA	GTTCTCCTTC	AGTCCCATGA	TCGAGTCACG
6481	TCAATCTCCA	GGTACTATAT	ATACATTTGC	CCGTTTTATC	TCTAATGTGA	AATAAATCCC
	AGTTAGAGGT	CCATGATATA	TATGTAAACG	GGCAAAATAG	AGATTACACT	TTATTTAGGG
6541	CAAACACTTG	TTTATCGTGT	AGCGTACCTA	AAAGACTATT	CTATTATGGG	TGTCCCCACT
	GTTTGTGAAC	AAATAGCACA	TCGCATGGAT	TTTCTGATAA	GATAATACCC	ACAGGGGTGA
6601	TTCTTGGTTT	GGTCACCCCG	ATCCCCCGGT	CTTCTGCTGT	ATCTAGAACA	GTGACTATAA
	AAGAACCAAA	CCAGTGGGGC	TAGGGGGCCA	GAAGACGACA	TAGATCTTGT	CACTGATATT
6661	ATGATGTATG	GGAATAGTGT	TTCCATATGA	TCTGTTGTCT	GGAGTATATG	CTACATGTTC
	TACTACATAC	CCTTATCACA	AAGGTATACT	AGACAACAGA	CCTCATATAC	GATGTACAAG
6721	ATTTACTGTA	CAAAAACCCA	GTGCAGCTGA	TGATGCAAAG	CAGTCTCTCT	CTGTGTACAG
	TAAATGACAT	GTTTTTGGGT	CACGTCGACT	ACTACGTTTC	GTCAGAGAGA	GACACATGTC
6781	TGCCCCACCT	ATTTAAAAAT	CACGTACAAN	CCCAGAACAC	TGTGAAACAC	TTAACATAAG
	ACGGGGTGGA	TAAATTTTAA	GTGCATGTTN	GGGTCTTG TG	ACACTTTTG TG	AATTGTATTCT
6841	AAACAAACGC	AGCGTCTGGA	TTCTTTCCAA	GGAGAGCAGC	TTTCTCCACA	GGAACACAGT
	TTTGTTTGCG	TCGCAGACCT	AAGAAAGGTT	CCTCTCGTCG	AAAGAGGTGT	CCTTGTGTCA
6901	AACAAAAGAG	GTCCGCCGCC	ATCCACACCC	AGCCAAGACA	CCTCAGAGGC	CATAGGGACA
	TTGTTTTCTC	CAGGCGGCGG	TAGGTGTGGG	TCGGTTCGTG	GGAGTCTCCG	GTATCCCTGT
6961	ACCTCCTTGC	TGGCCAACAC	CTGCTGGAGC	AGGGCACAGG	TCCCAGCAAC	TGATCCTCAG
	TGGAGGAACG	ACCGGTTGTG	GACGACCTCG	TCCCGTGTCC	AGGGTCGTTG	ACTAGGAGTC
7021	TGGATGGGTC	CGCAGTCAAA	GCCTTAATGG	GCTCTCTTTT	GAAGGGGAAA	GAAANNTTTC
	ACCTACCCAG	GCGTCAGTTT	CGGAATTACC	CGAGAGAAAA	CTTCCCCTTT	CTTTNNAAAG
7081	AAGCTTATGA	TATCCAACAT	TATTATAGTT	GATGAGTTAG	TAAATTCCGA	AAAAAAAAGA
	TTCCAATACT	ATAGGTTGTA	ATAATATCAA	CTACTCAATC	ATTTAAGGCT	TTTTTTTTTCT
7141	TGATTTTATA	TGTATGACAT	AAAAAAAATC	TTTGTAAAGT	GCGCAAGTGC	AATAATTTAA
	ACTAAAATAT	ACATACTGTA	TTTTTTTTTAG	AAACATTTCA	CGCGTTCACG	TTATTAAATT
7201	AGAGGTCTTA	TCTTTGCATT	TATAAATTAT	AAATATTGTA	CATGTGTGTA	ATTTTTCATG
	TCTCCAGAAT	AGAAACGTAA	ATATTTAATA	TTTATAACAT	GTACACACAT	TAAAAAGTAC
7261	TATTCATTTG	CAGTCTTTGT	ATTTAAAAAA	ACTTTACTGT	TATGTTTGTA	TAATAGAACA
	ATAAGTAAAC	GTCAGAAACA	TAAATTTTTT	TGAAATGACA	ATACAAACAT	ATTATCTTGT
7321	TTAATCATTT	ATTATAACTC	AGACAAGGTG	TAAATAAATT	CATAATTCAA	ACAGCCAGTA
	AATTAGTAAA	TAATATTGAG	TCTGTTCCAC	ATTTATTTAA	GTATTAAGTT	TGTCGGTCAT
7381	TATATGCATA	TATGGGTGTT	ACATTGCAAA	AATCTCTATC	TTTGTCTTAT	TCACATGCTT
	ATATACGTAT	ATACCCACAA	TGTAACGTTT	TTAGAGATAG	AAACAAGATA	AGTGTACGAA
7441	AAAGAAGTAA	GAAATCTTTT	GTGGATATGT	AATTATACAT	ATAAAGTATA	TATATATGTA
	TTTCTTCATT	CTTTAGAAAA	CACCTATACA	TTAATATGTA	TATTTTCATAT	ATATATACAT
7501	TGATACATGA	AATATATTTA	GAAATGTTCA	TAATTTTAAT	GGATATTCTT	TGGTGTGAAT
	ACTATGTACT	TTATATAAAT	CTTTACAAGT	ATTAAAATTA	CCTATAAGAA	ACCACACTTA



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## Figure 19 (cont.)

7561 AATTGAATAC AACATTTTAA AAATGAAAAA AAAAAAAAAA AAAAAAAAAA AAAAAAAAAA  
TTAACTTATG TTGTAAAAAT TTTACTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT

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